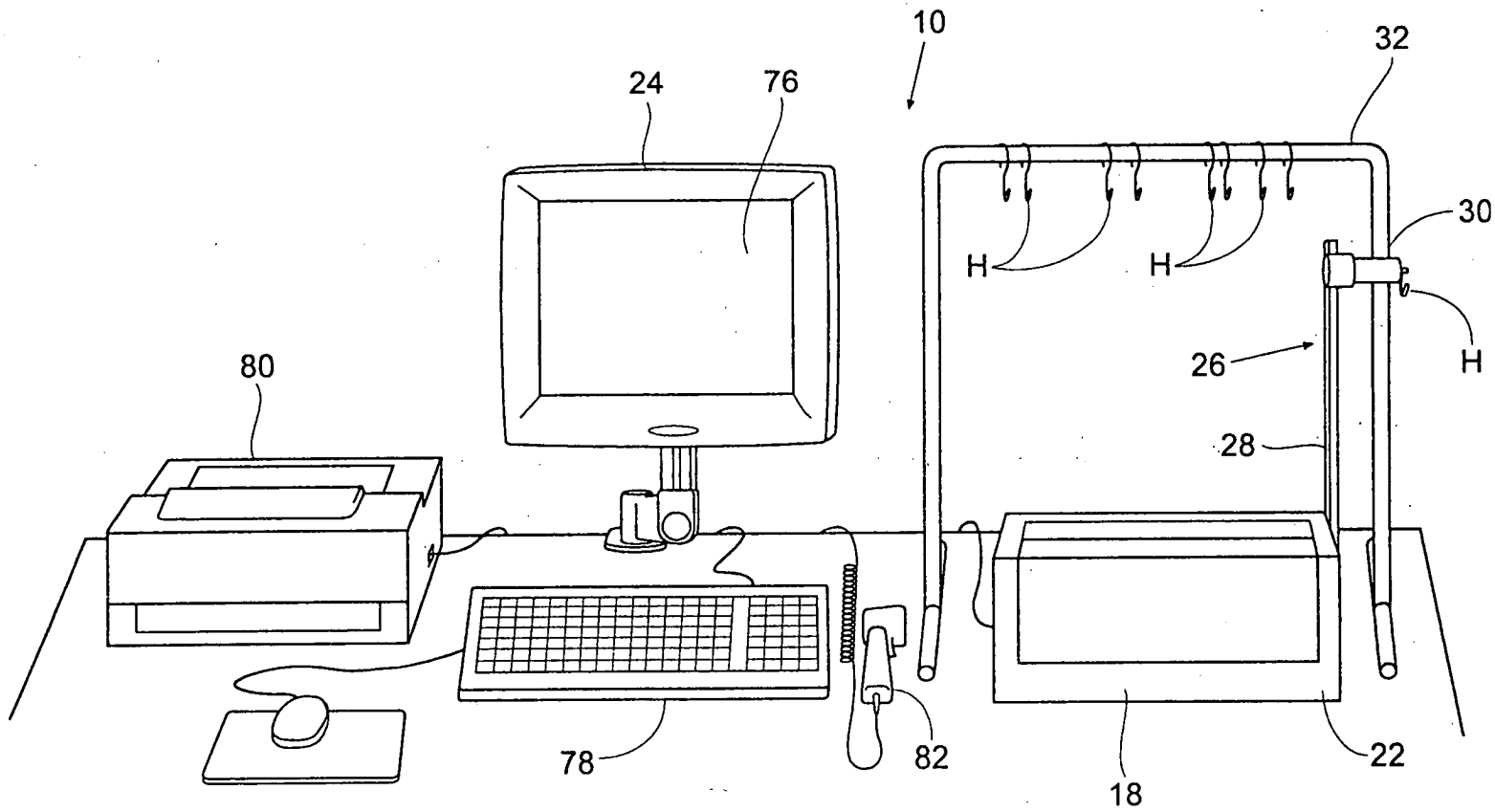


Fig. 1

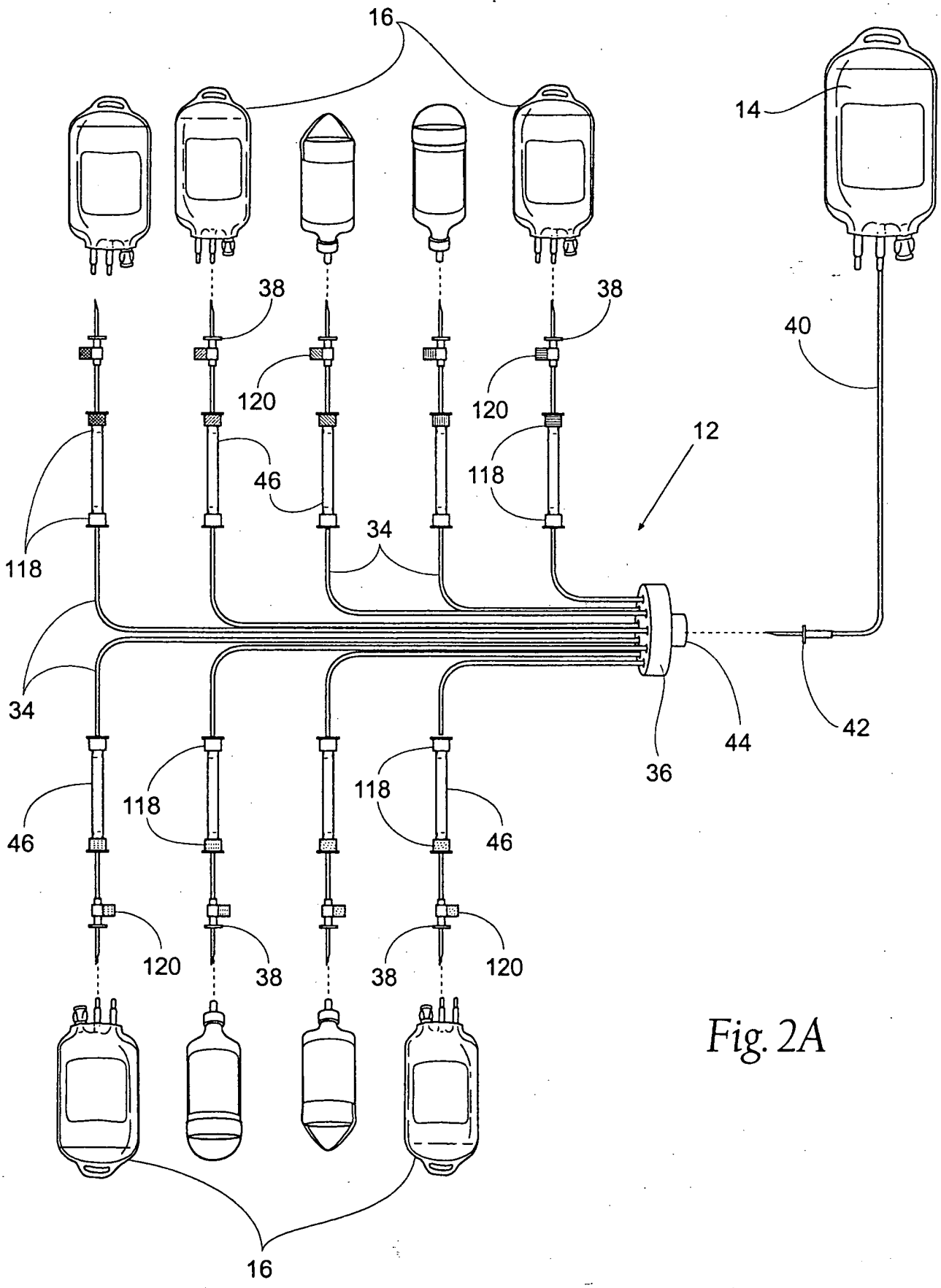

16
14
38
38
40
120
120
12
46
118
118
34
34
42
44
36
46
118
118
46
120
38
38
120
16

Fig. 2A

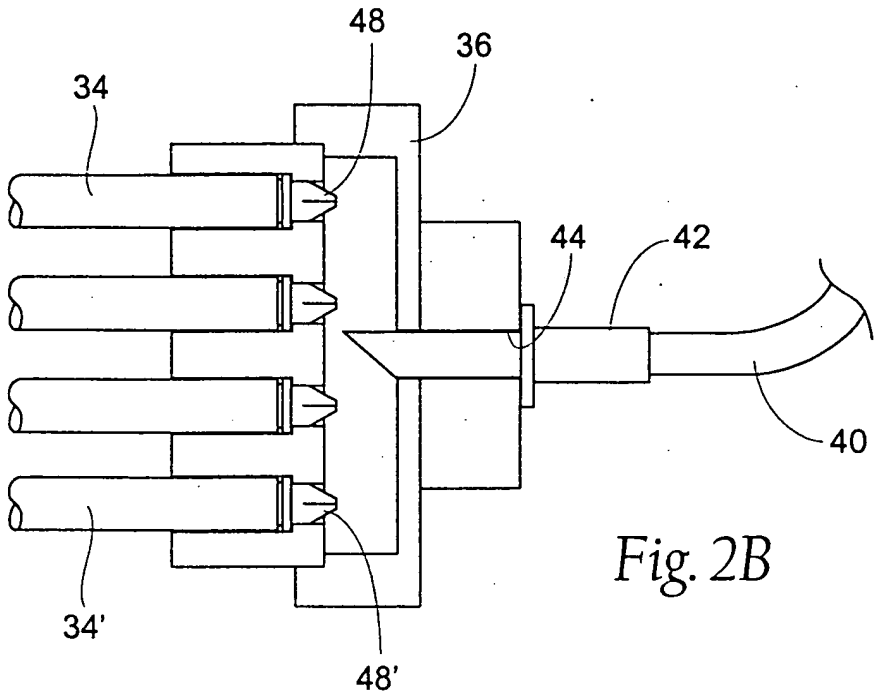


Fig. 2B

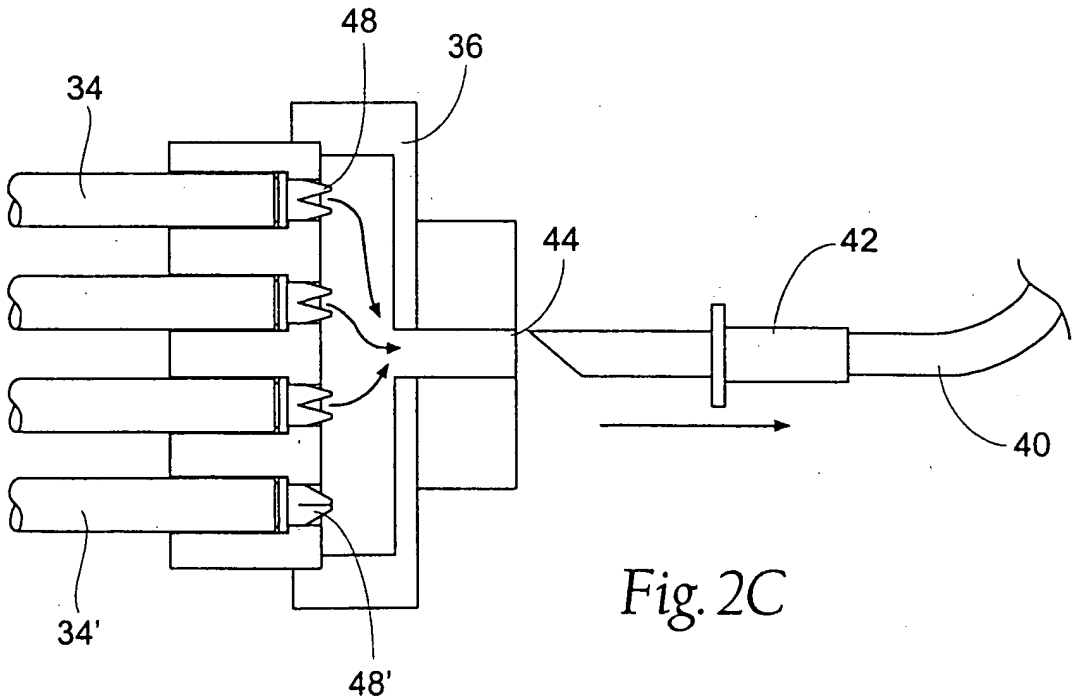


Fig. 2C

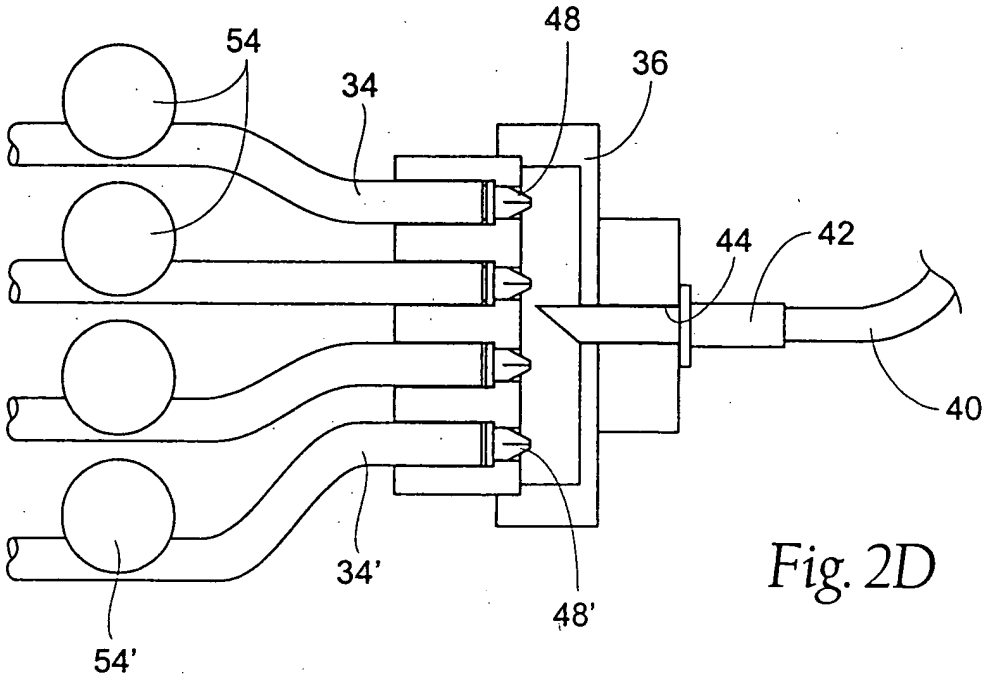


Fig. 2D

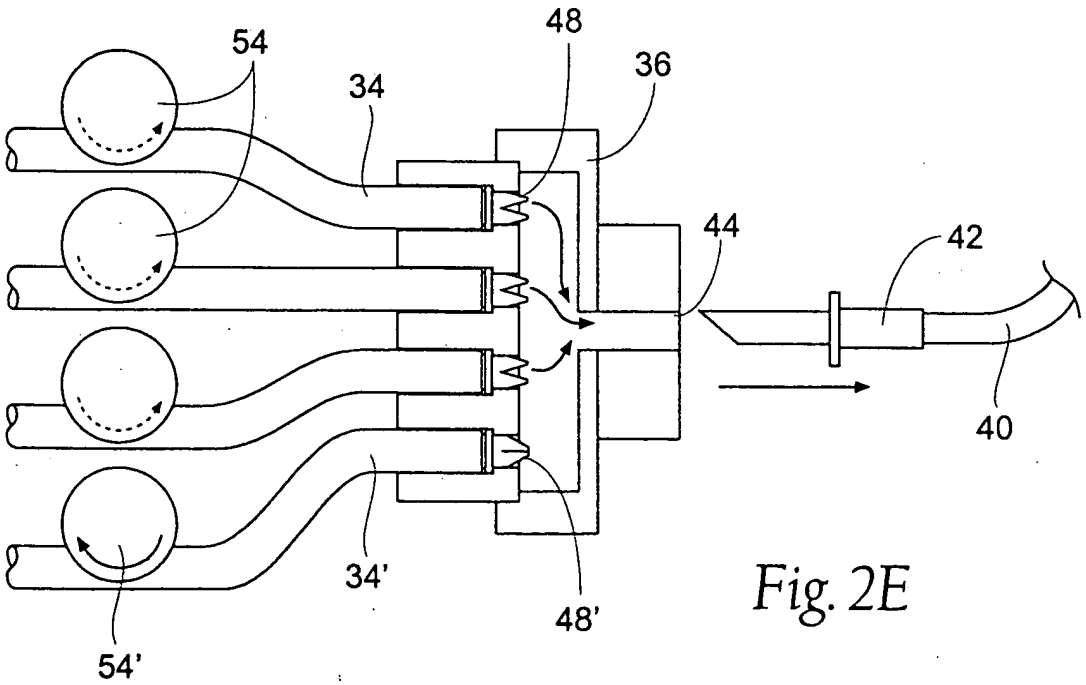


Fig. 2E

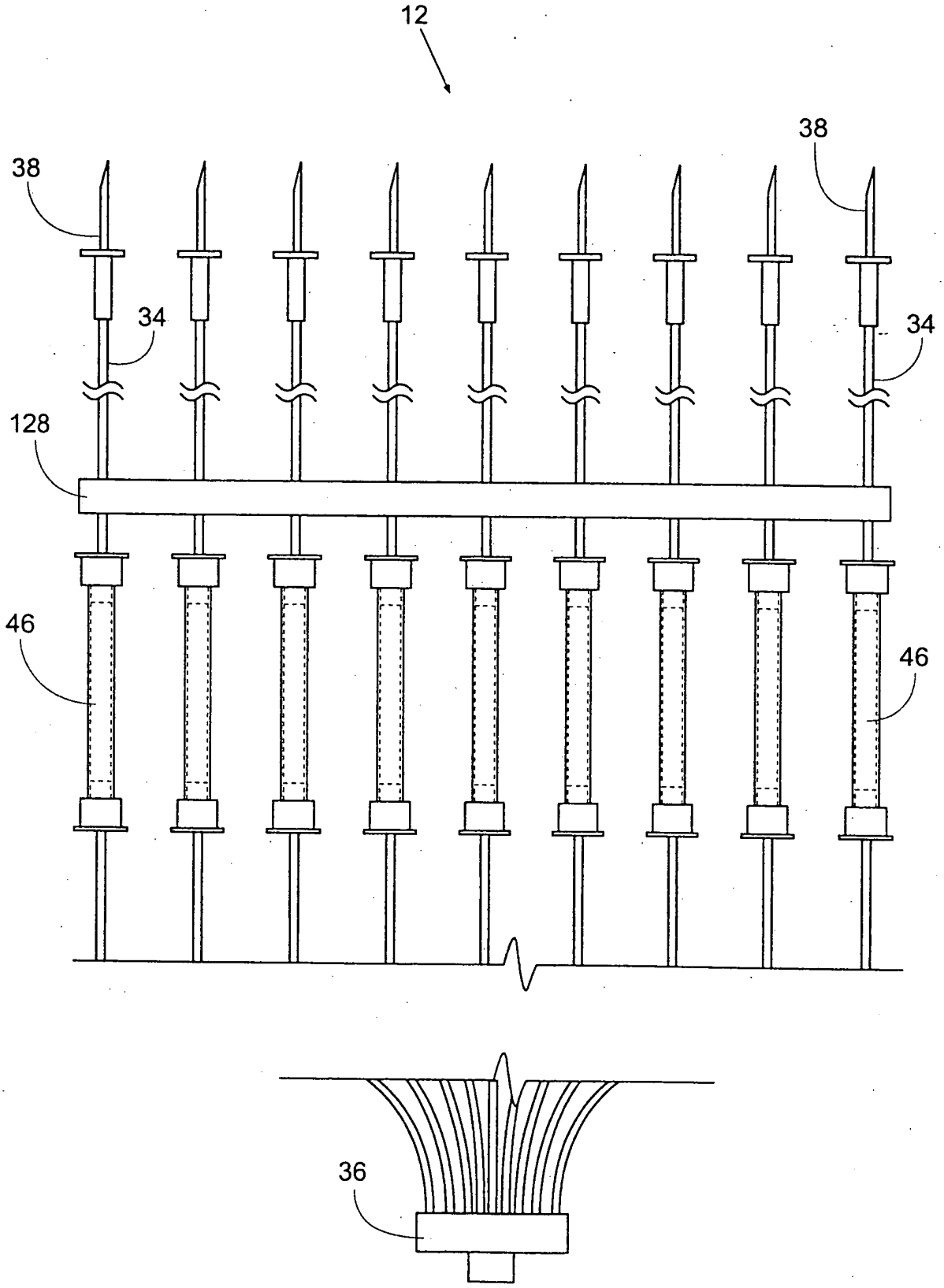


Fig. 2F

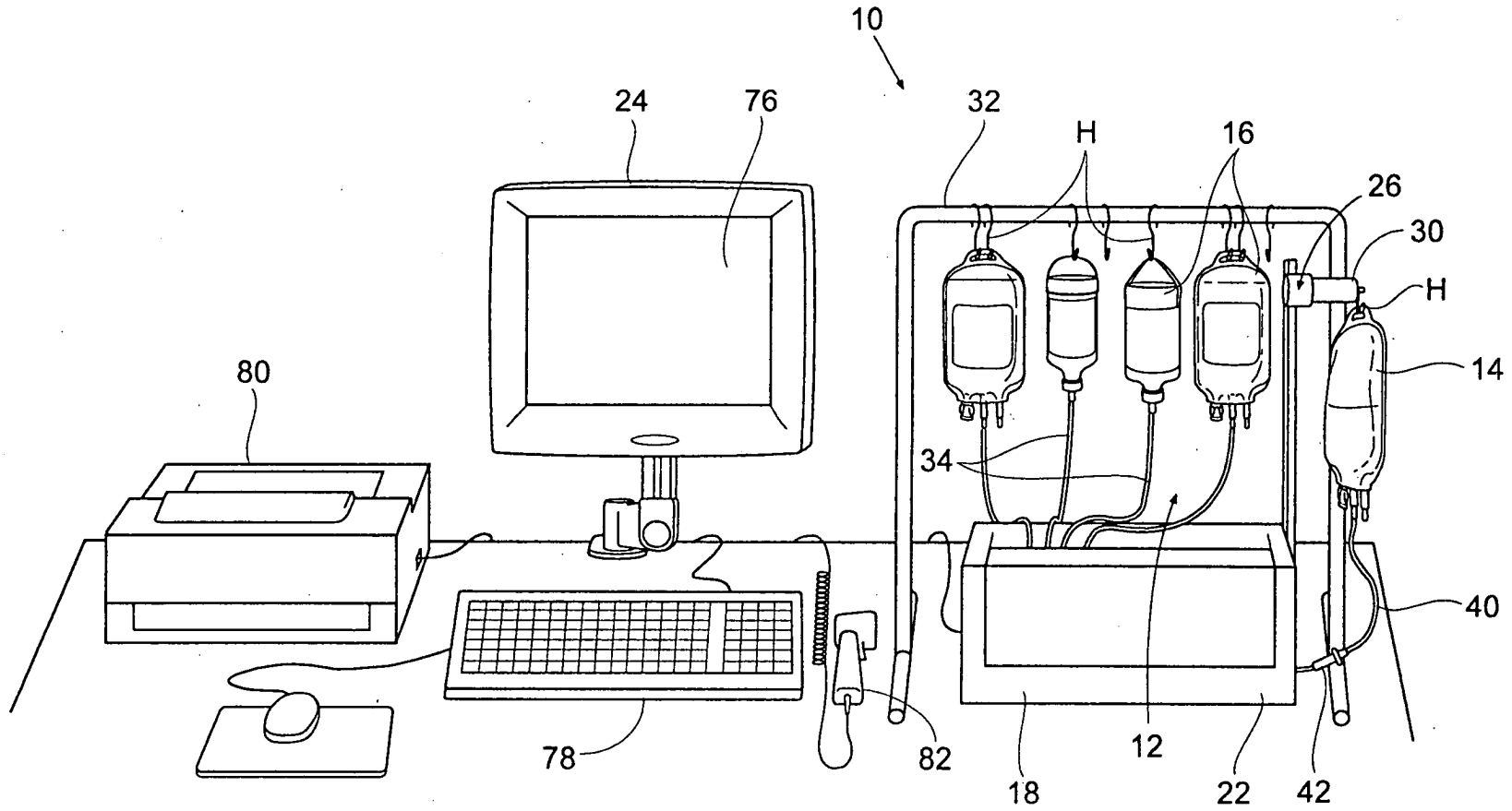


Fig. 3

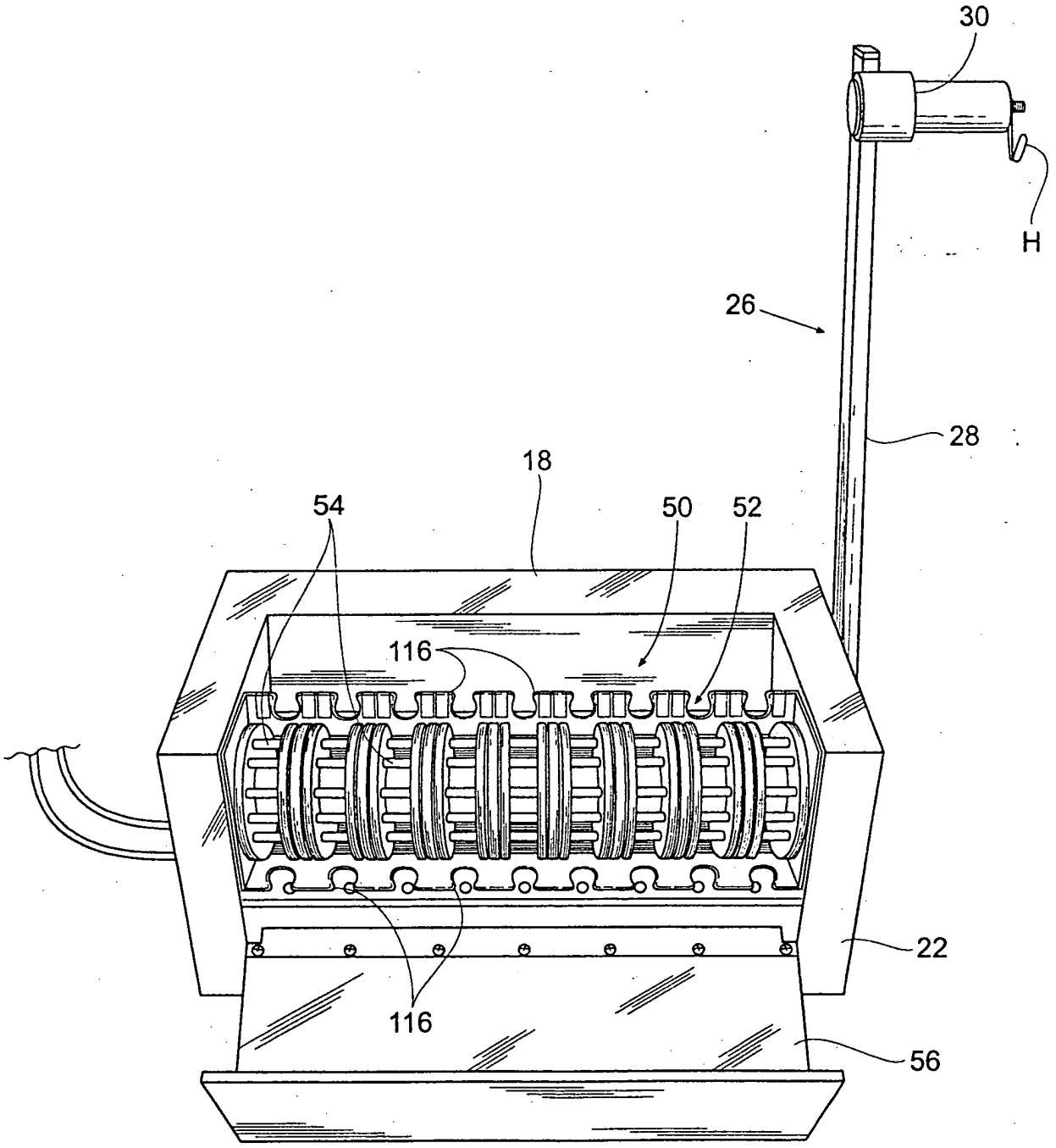


Fig. 4

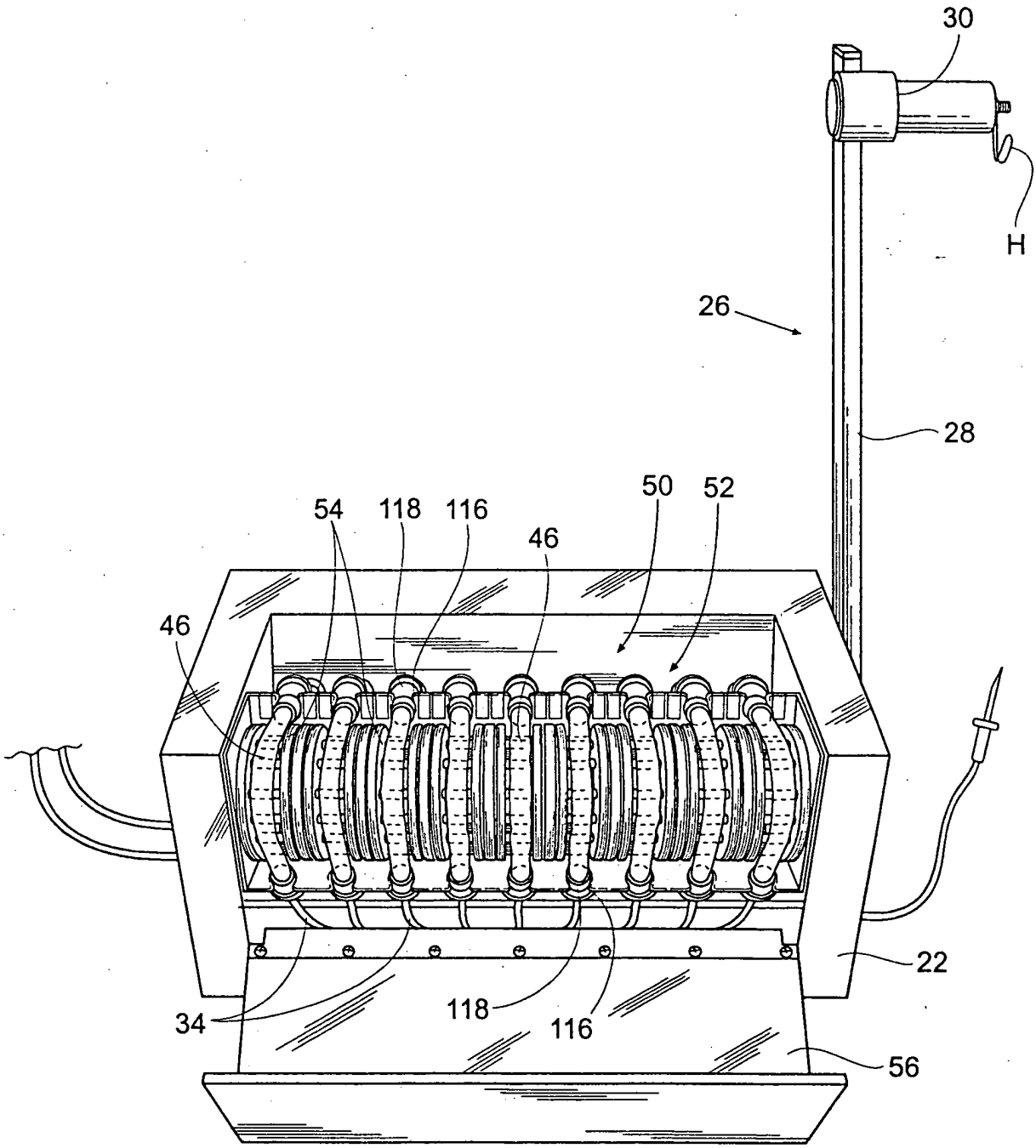


Fig. 5

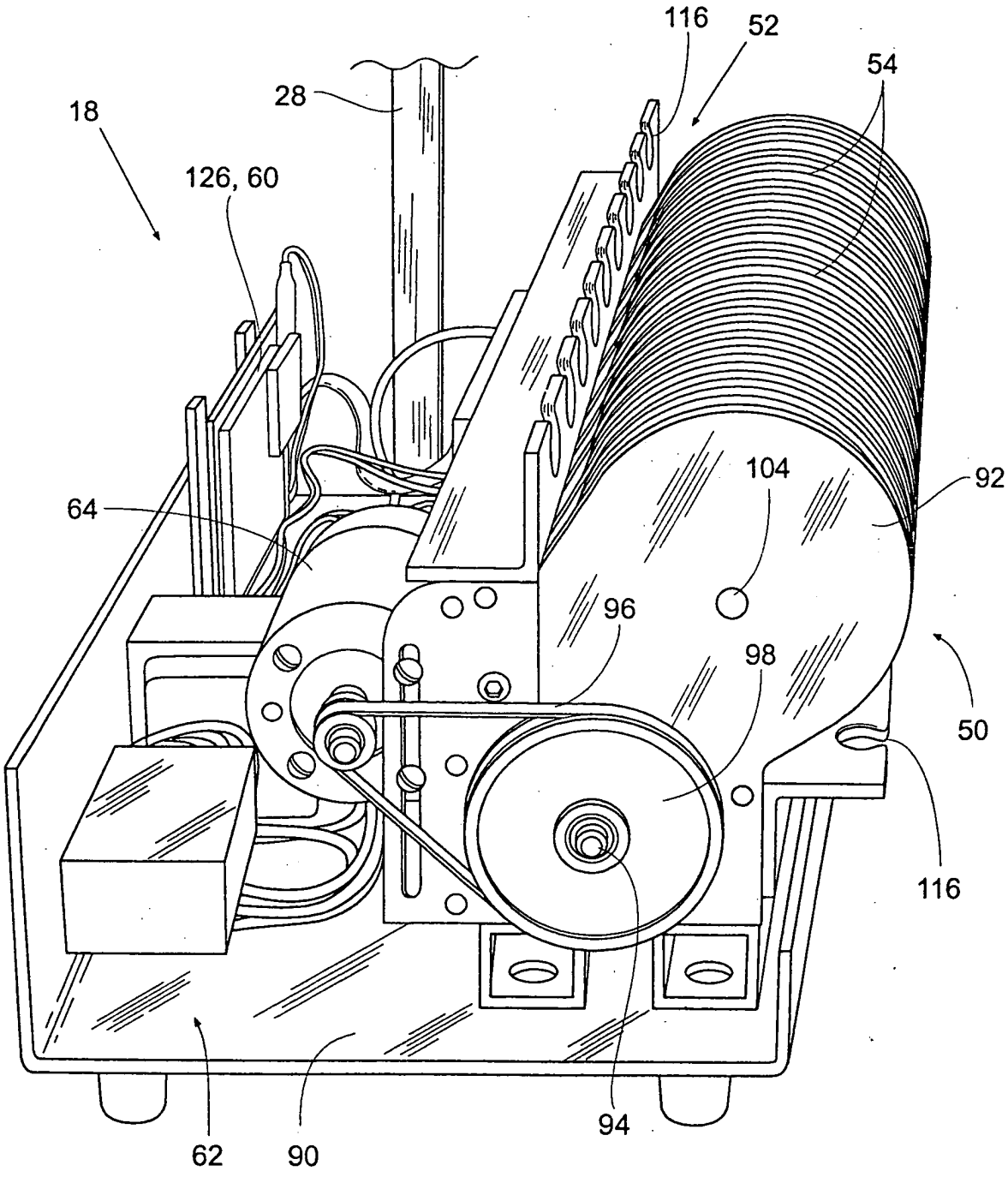


Fig. 6A

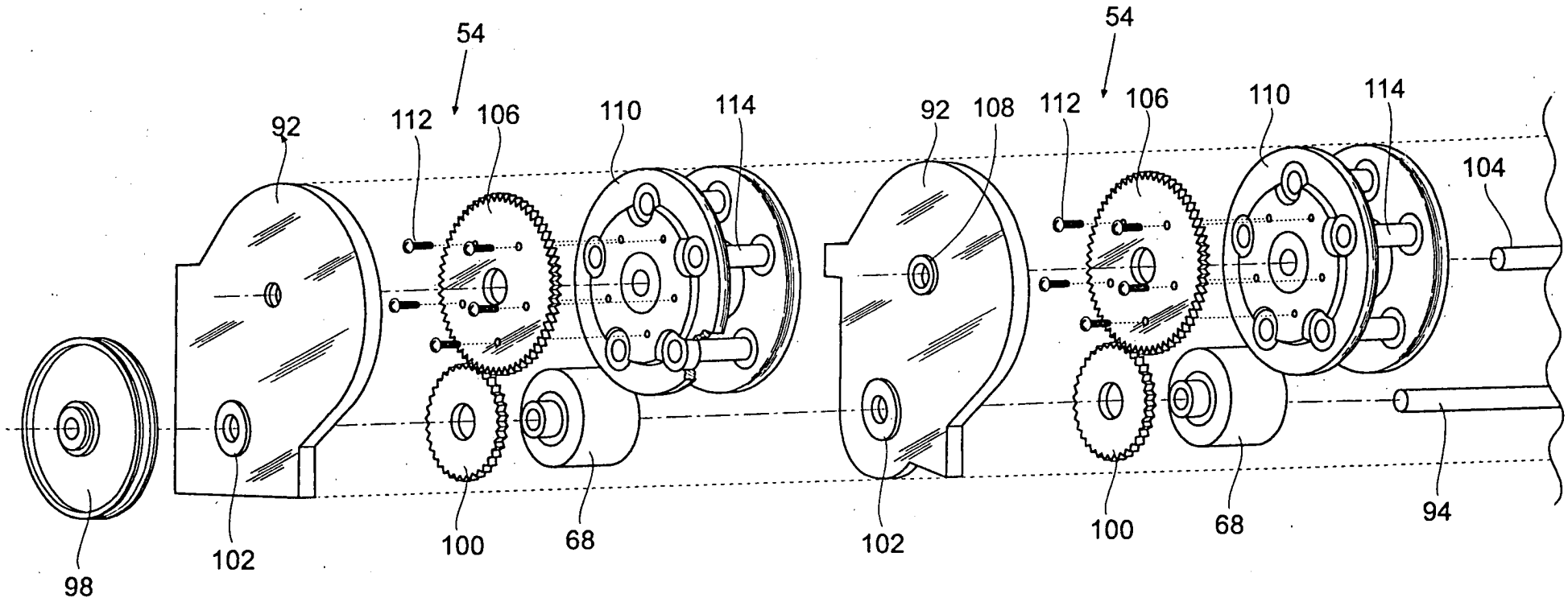

54
54
92
112
106
110
114
92
108
112
106
110
114
104
98
102
100
68
102
100
68
94

Fig. 6B

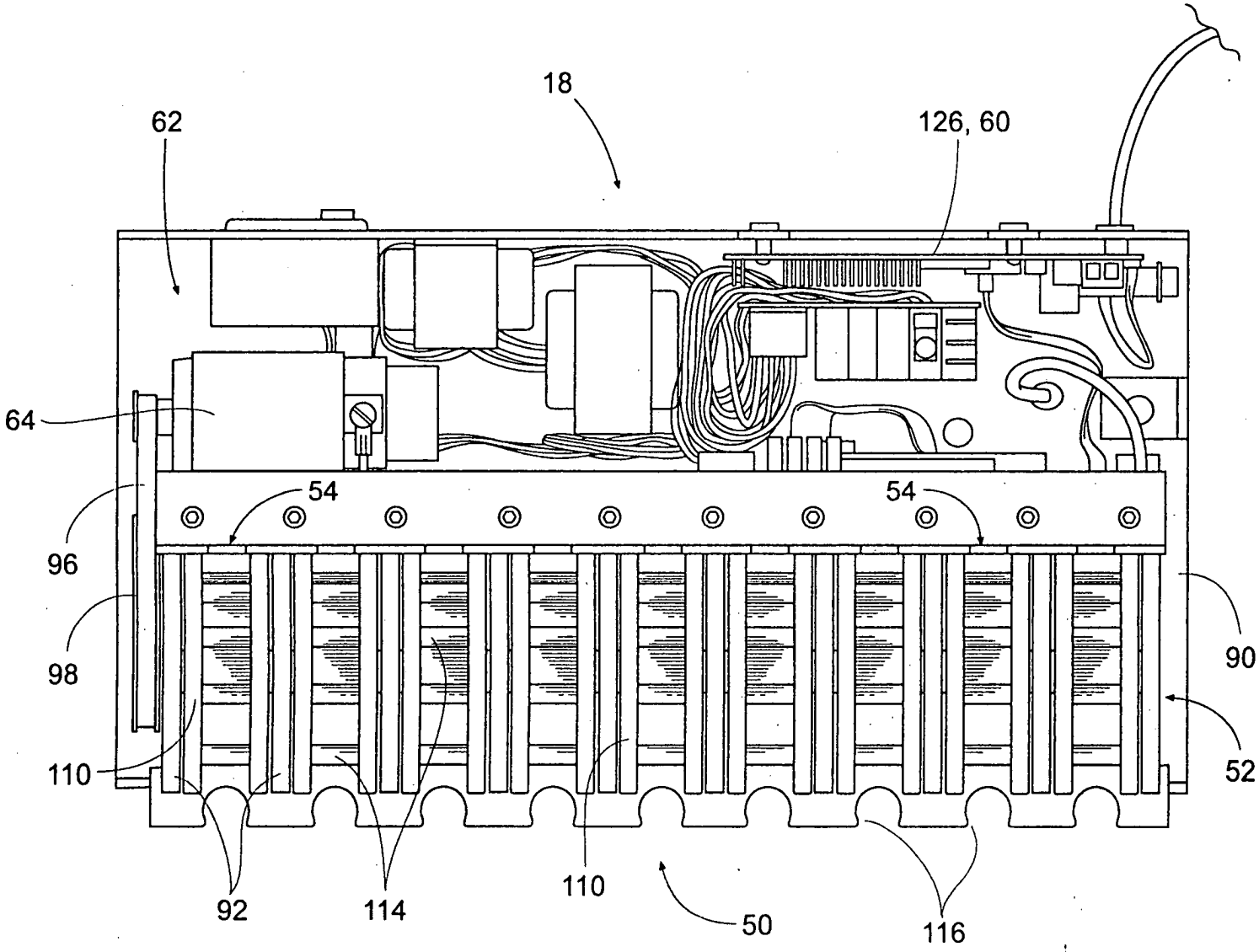


Fig. 7

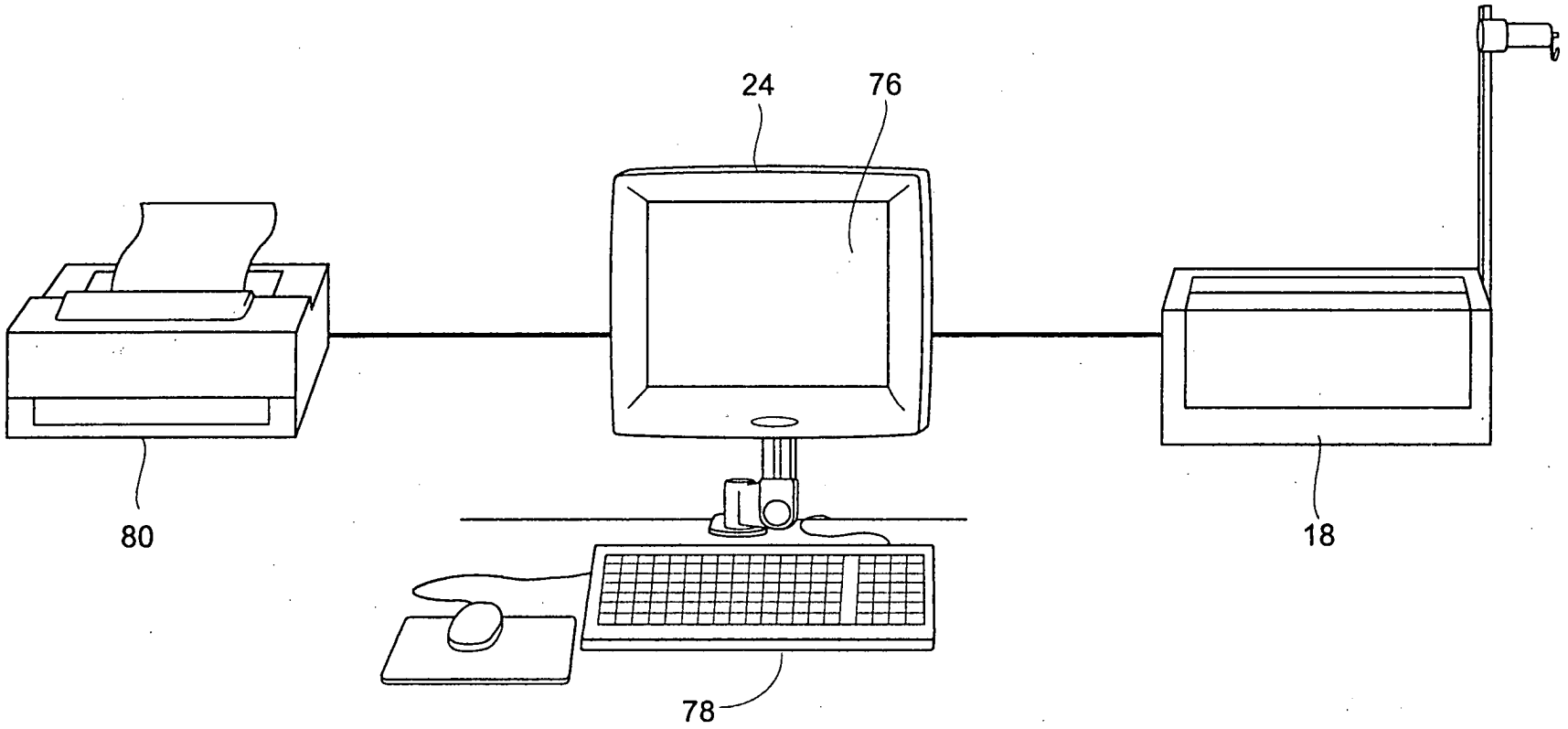


Fig. 8A

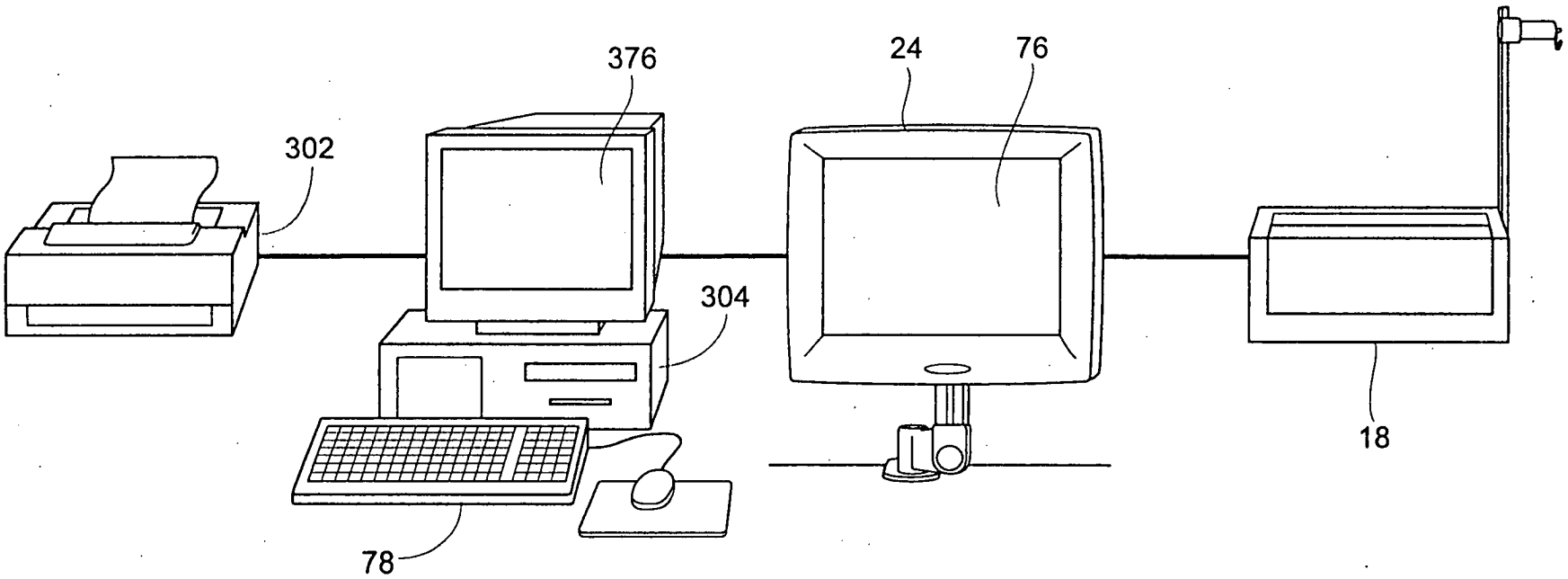


Fig. 8B

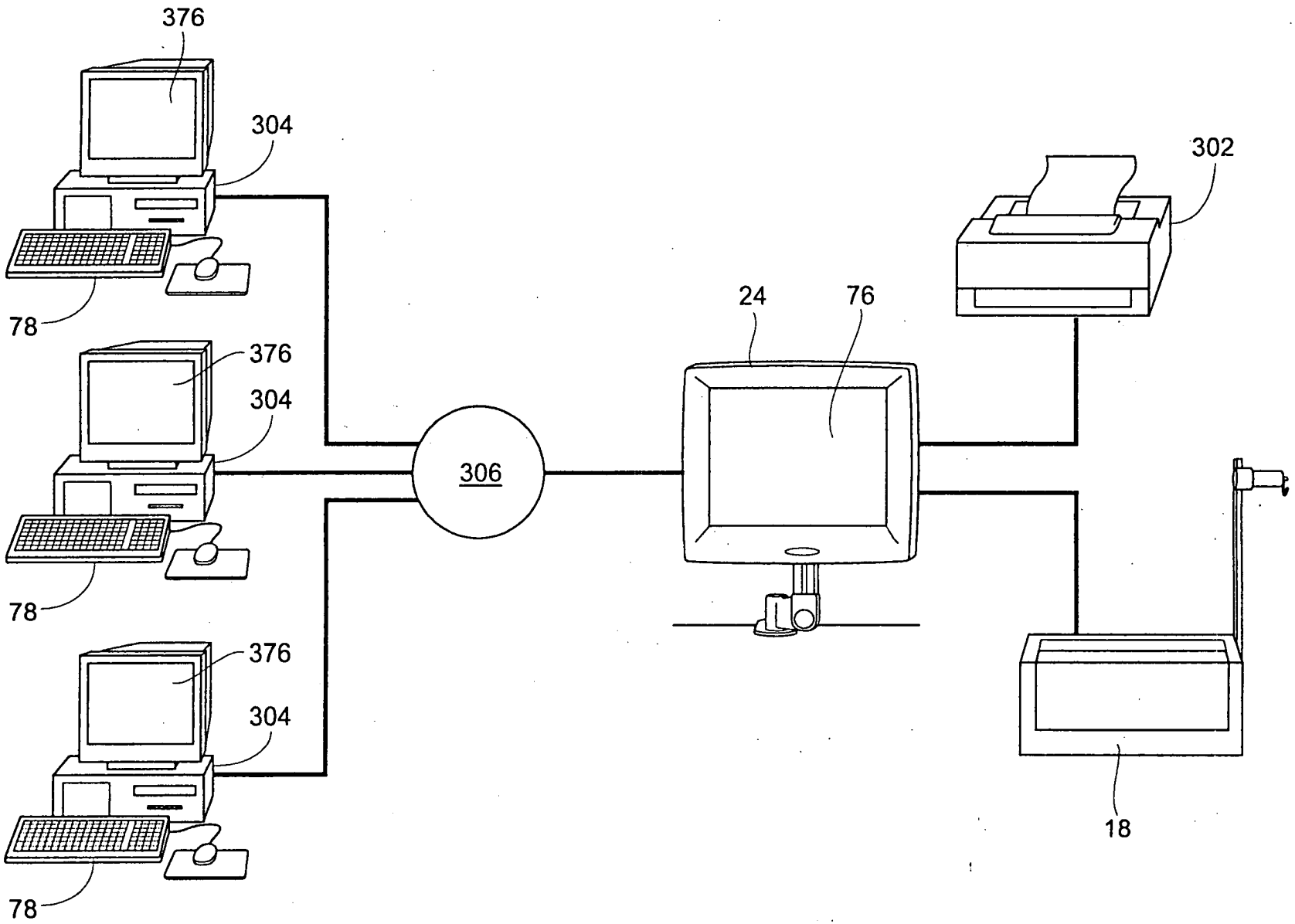


Fig. 8C

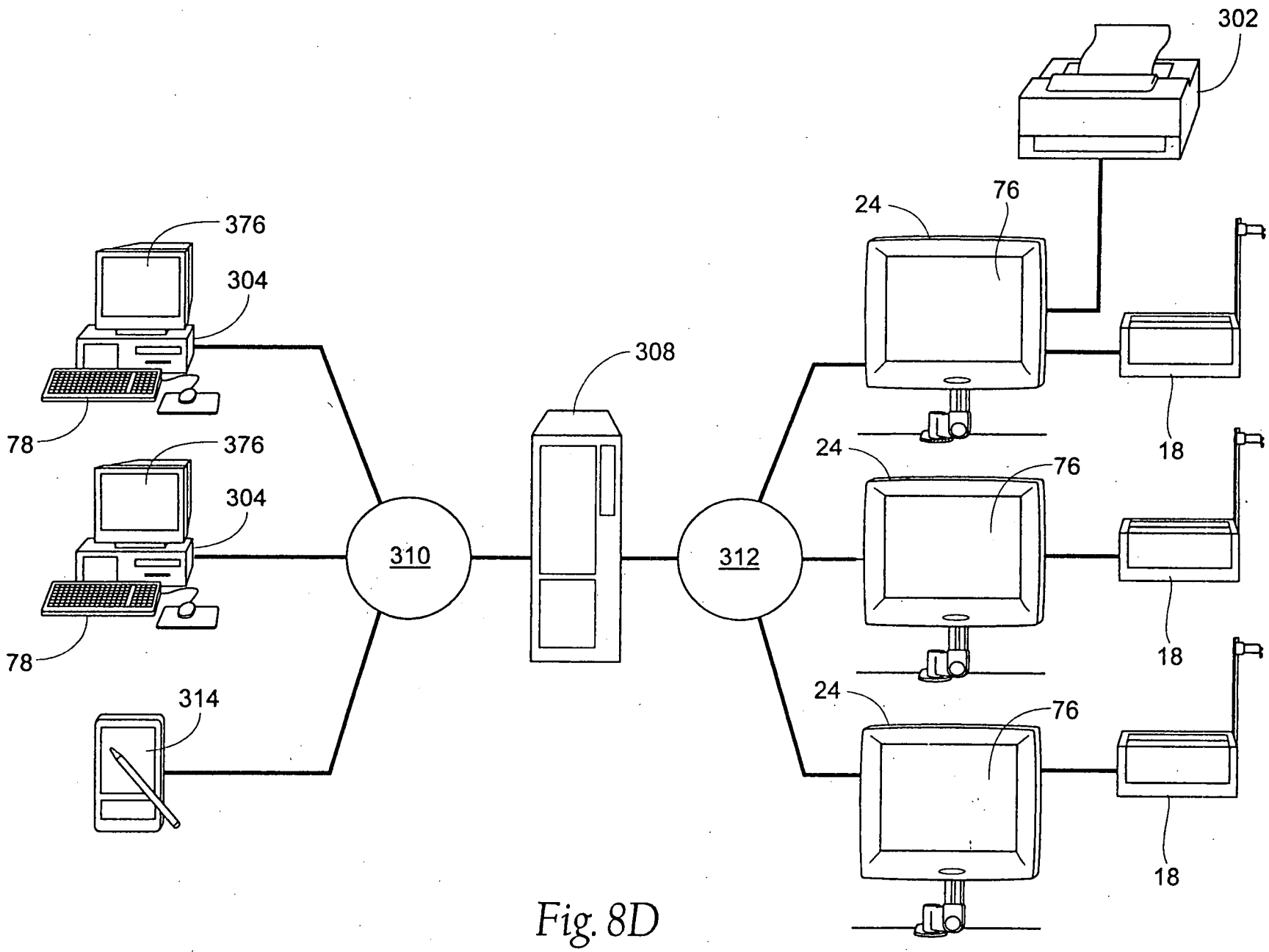


Fig. 8D

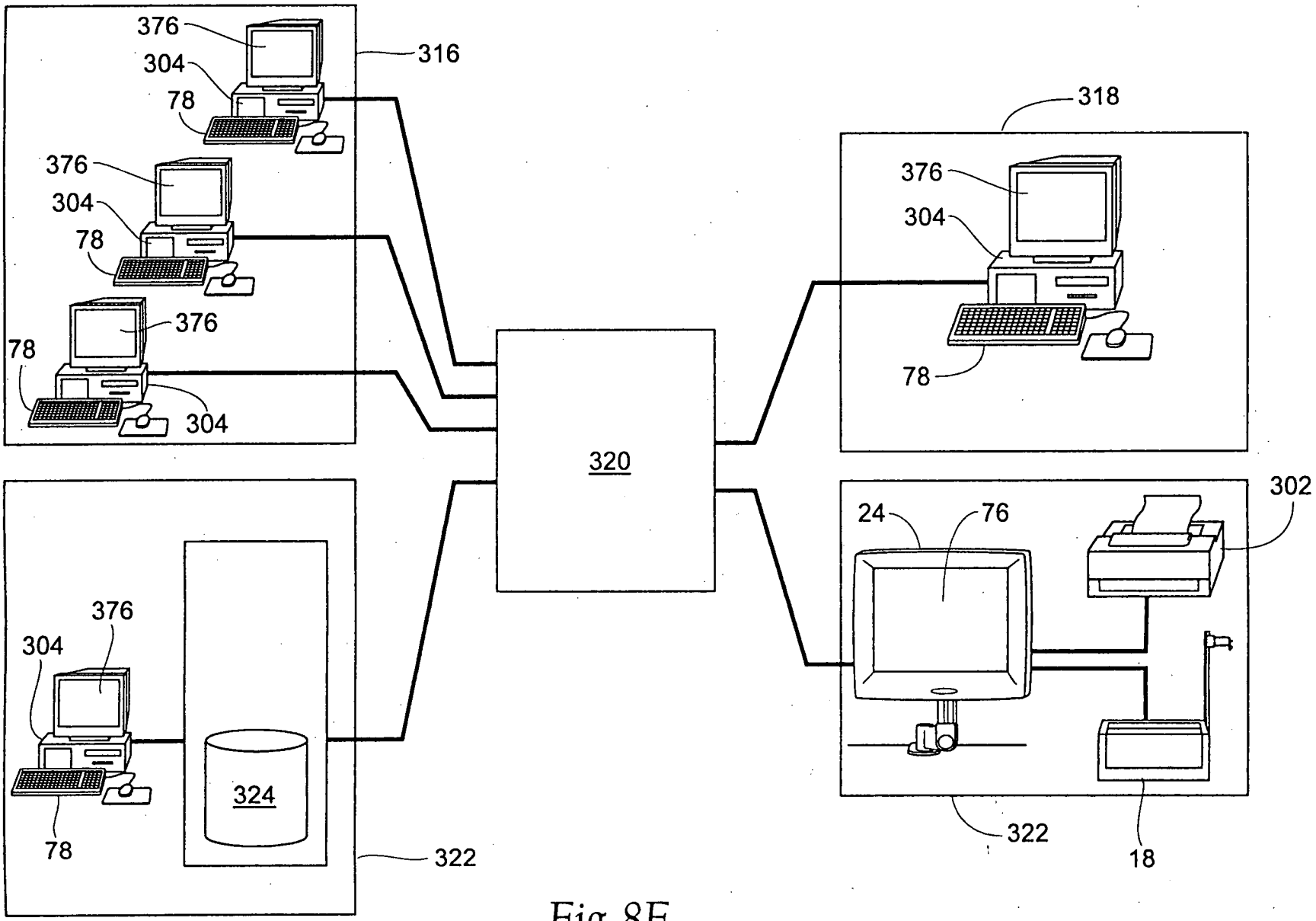

376
304
78
316
376
304
78
376
78
304
318
376
304
78
320
24
76
302
376
304
324
78
322
322
18

Fig. 8E

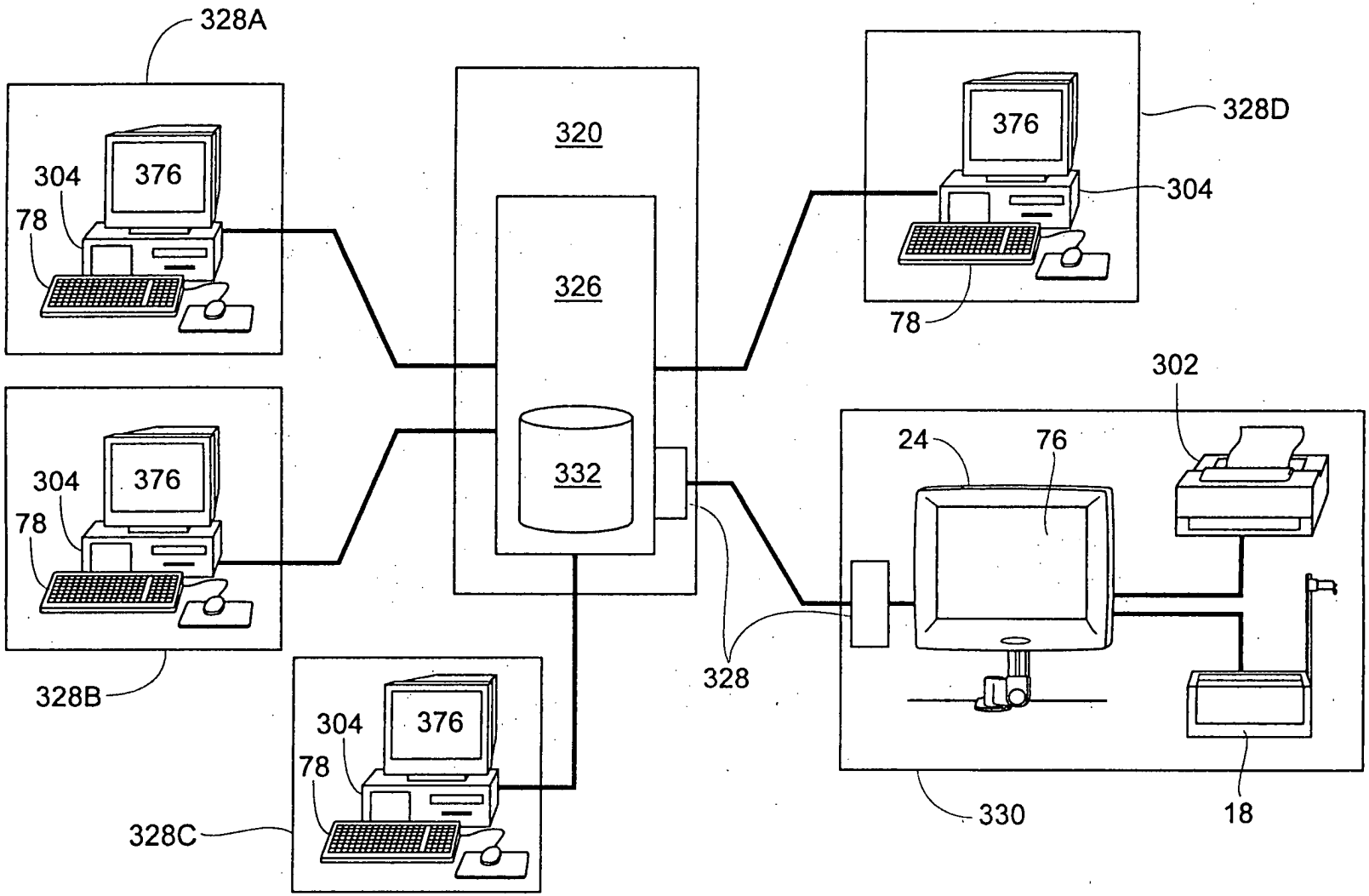

328A
304
376
78
320
326
332
328D
376
304
78
328B
304
376
78
328C
304
376
78
328
302
24
76
330
18

Fig. 8F

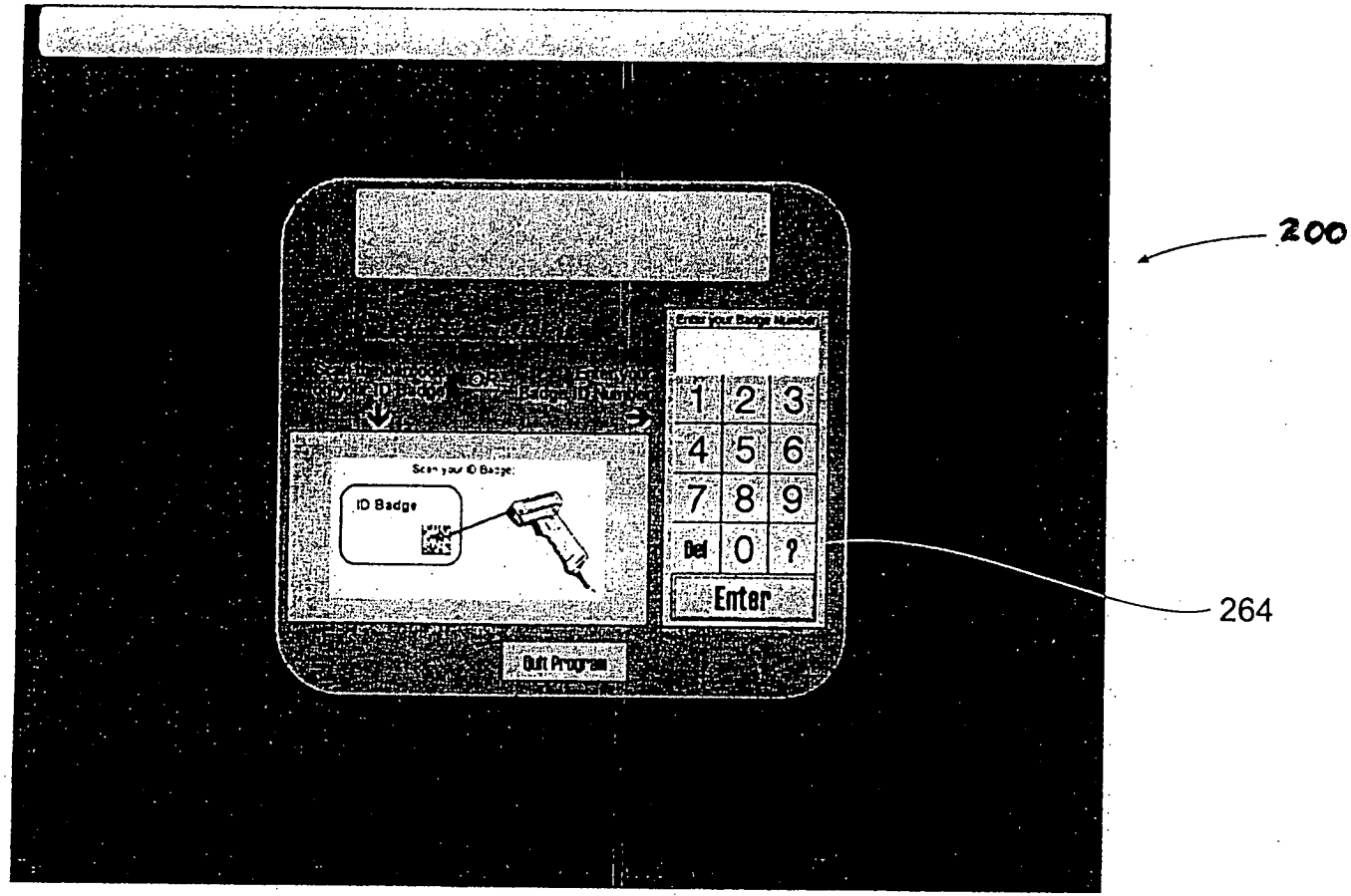


Fig. 9A

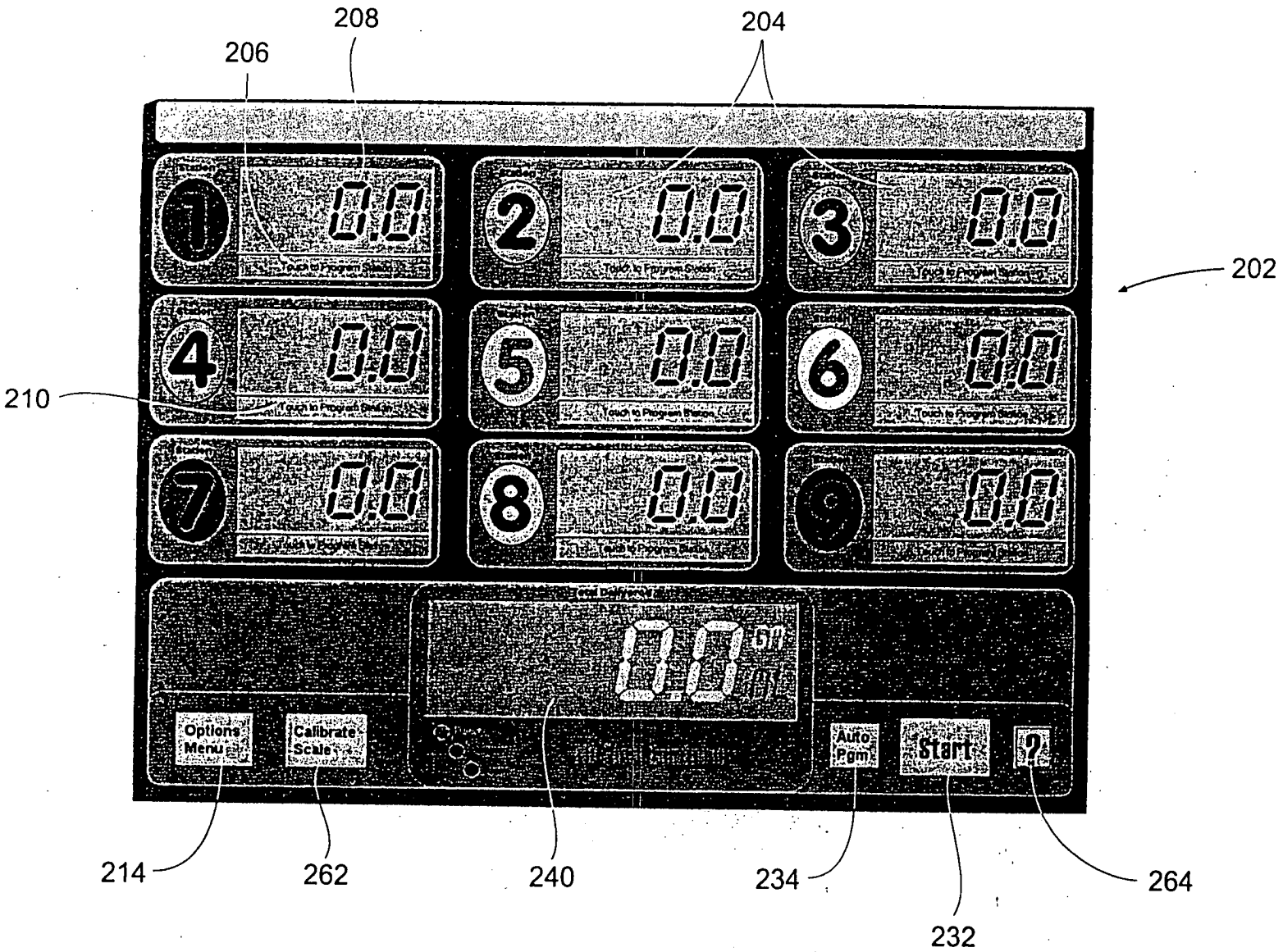

208
206
204
202
210
1
2
3
4
5
6
7
8
9
Options Menu
Calibrate Scale
Auto Pgm
Start
?
214
262
240
234
232
264

Fig. 9B

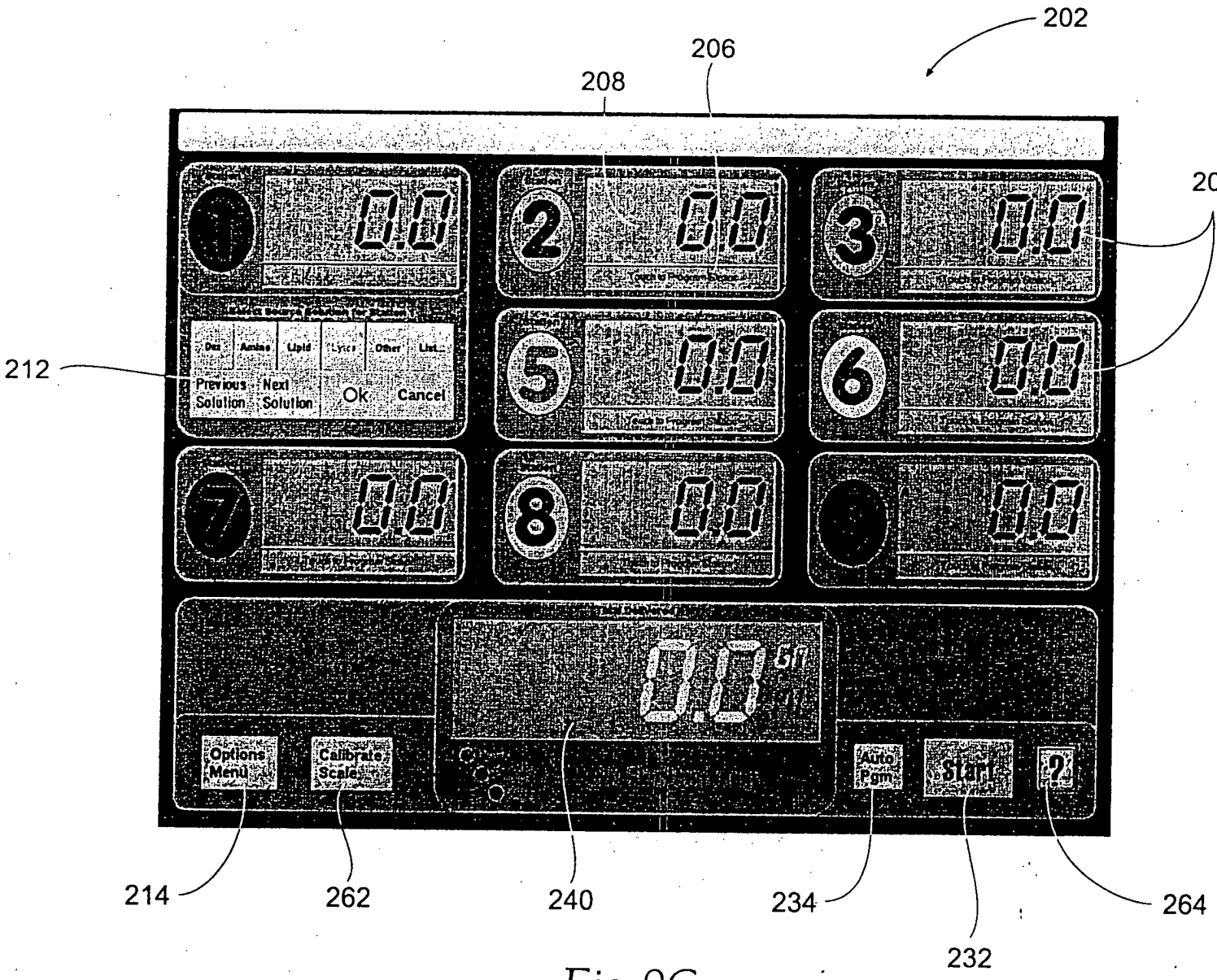

202
206
208
204
212
Previous Solution
Next Solution
Ok
Cancel
Options Menu
Calibrate Scale
Auto Pgm
Start
214
262
240
234
232
264

Fig. 9C

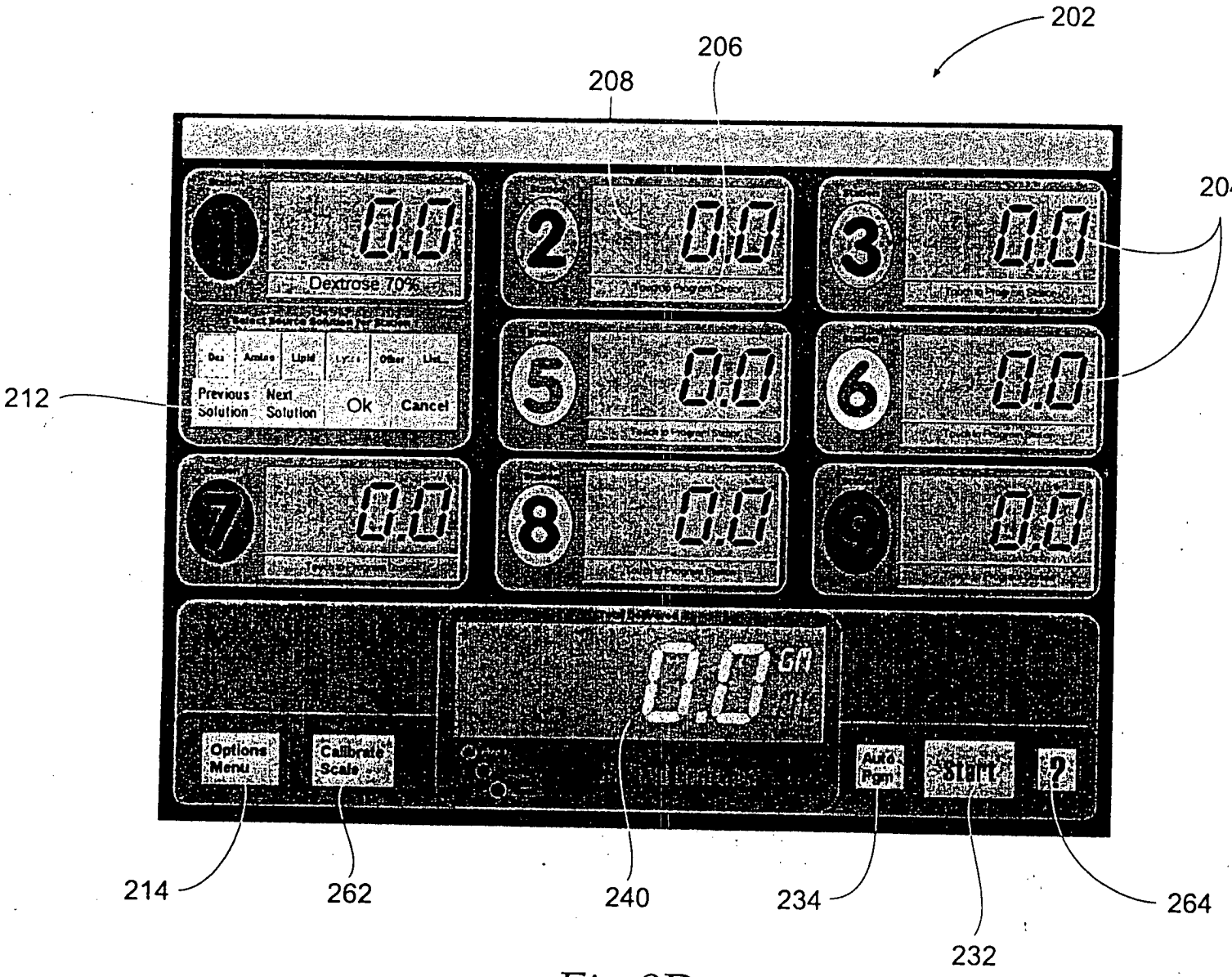

202
206
208
204
212
Dextrose 70%
Previous Solution
Next Solution
Ok
Cancel
Options Menu
Calibrate Scale
Auto Pom
Start
?
214
262
240
234
232
264

Fig. 9D

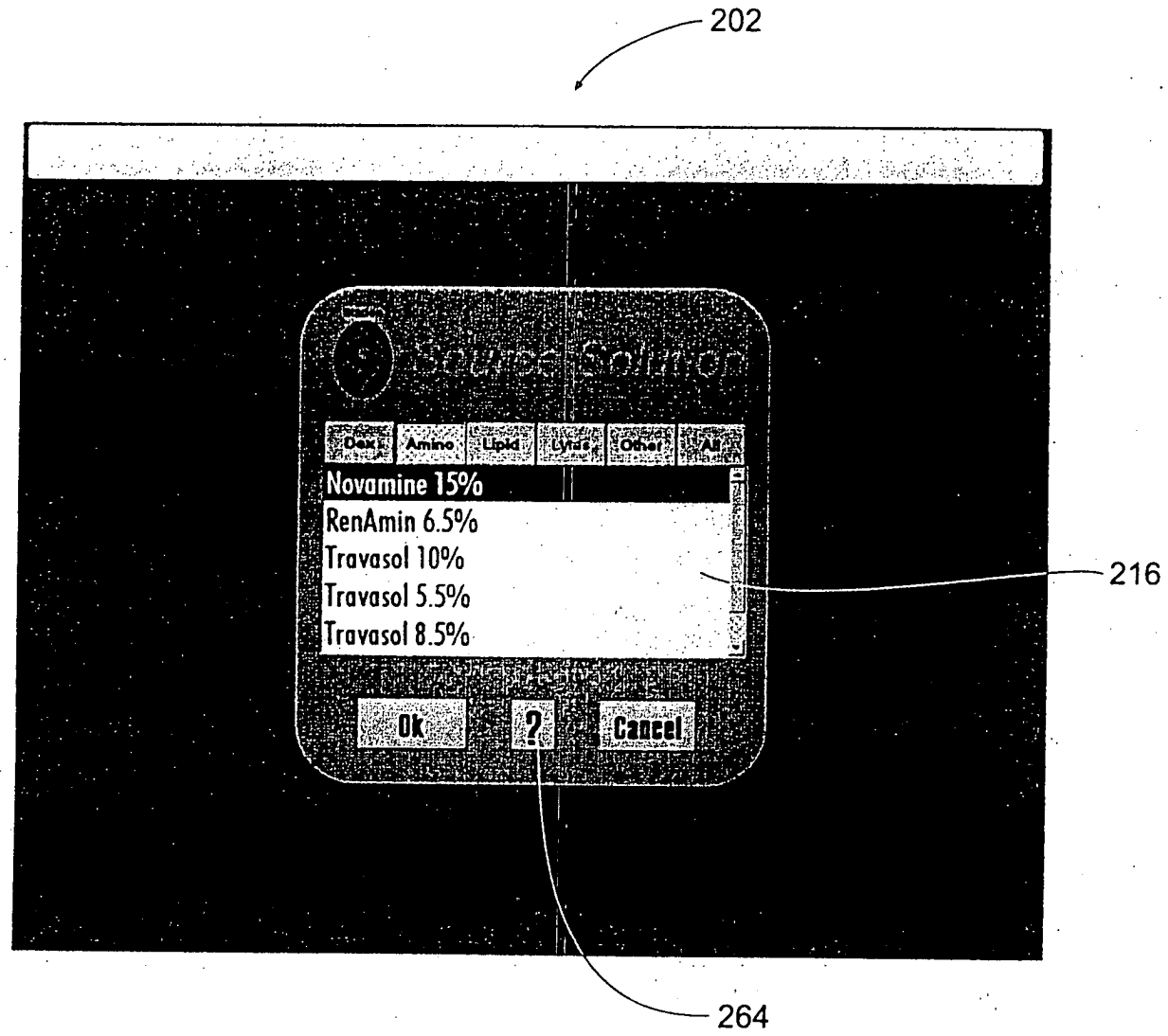

202
Source Solution
Dext
Amino
Lipid
Lyte
Other
All
Novamine 15%
RenAmin 6.5%
Travasol 10%
Travasol 5.5%
Travasol 8.5%
216
Ok
?
Cancel
264

Fig. 9E

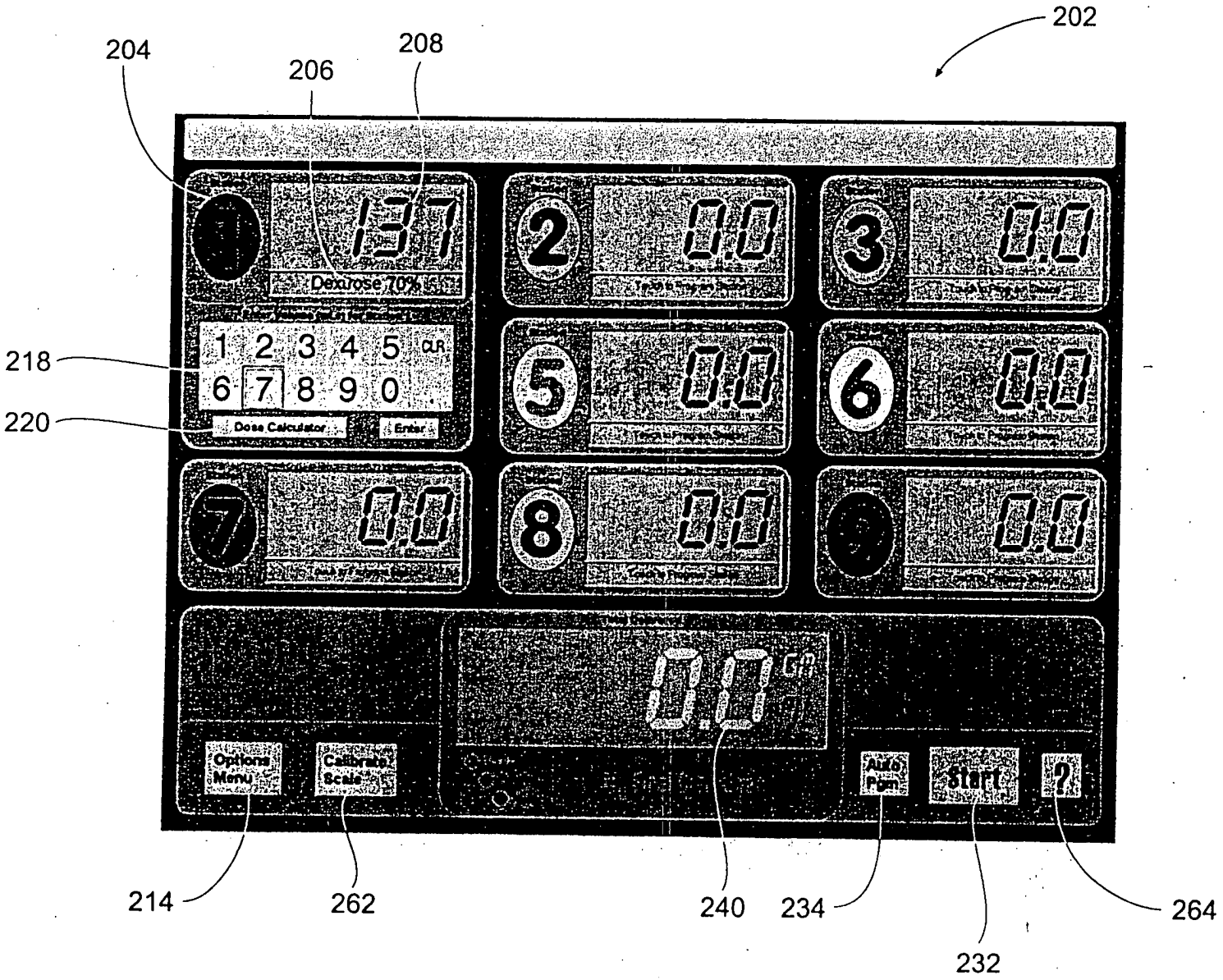

202
204
206
208
218
220
214
262
240
234
232
264
Dextrose 70%
Dose Calculator
Enter
Options Menu
Calibrate Scale
Start

Fig. 9F

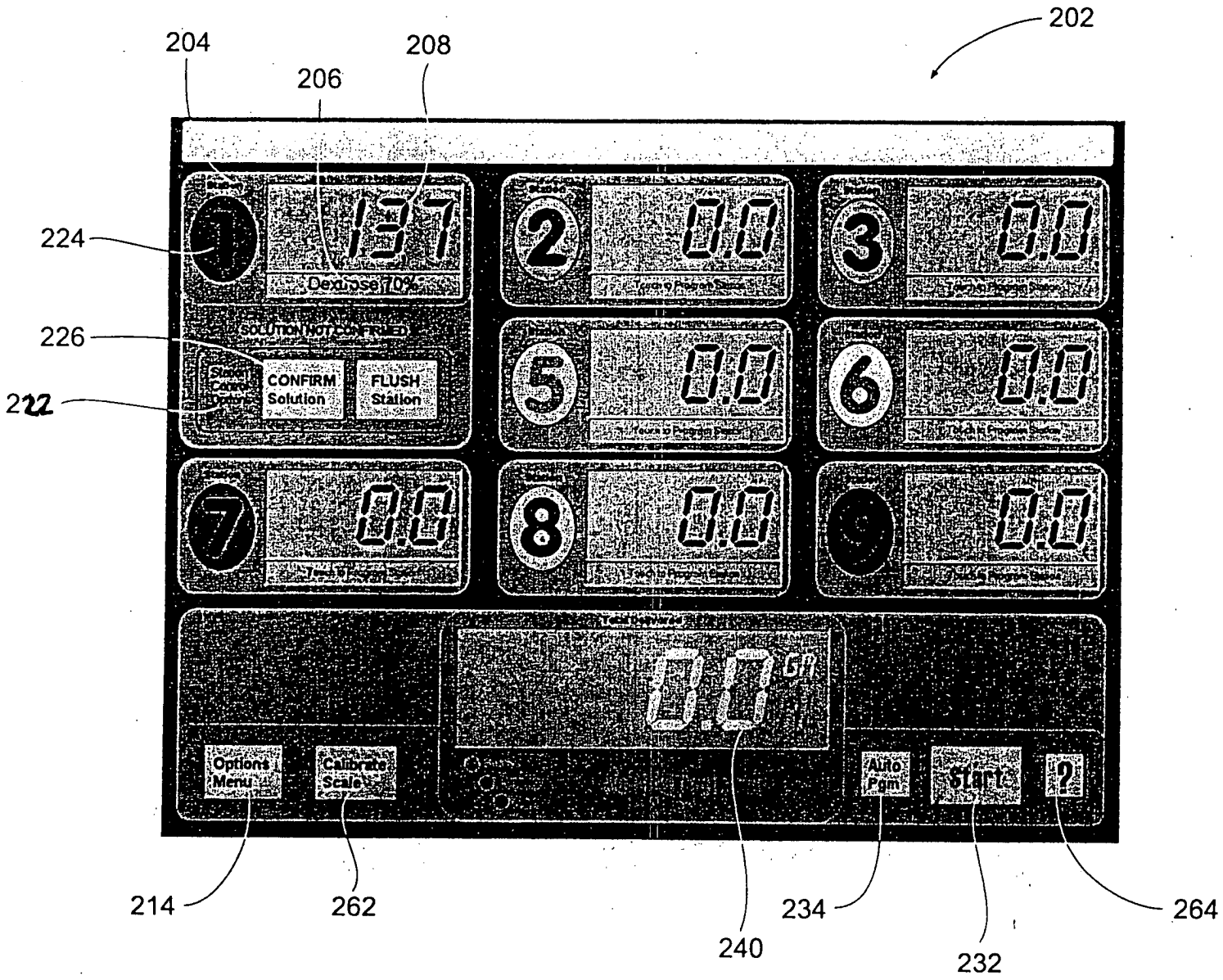

202
204
206
208
224
226
222
CONFIRM Solution
FLUSH Station
Options Menu
Calibrate Scale
Auto Pgm
Start
?
214
262
240
234
232
264

Fig. 9G

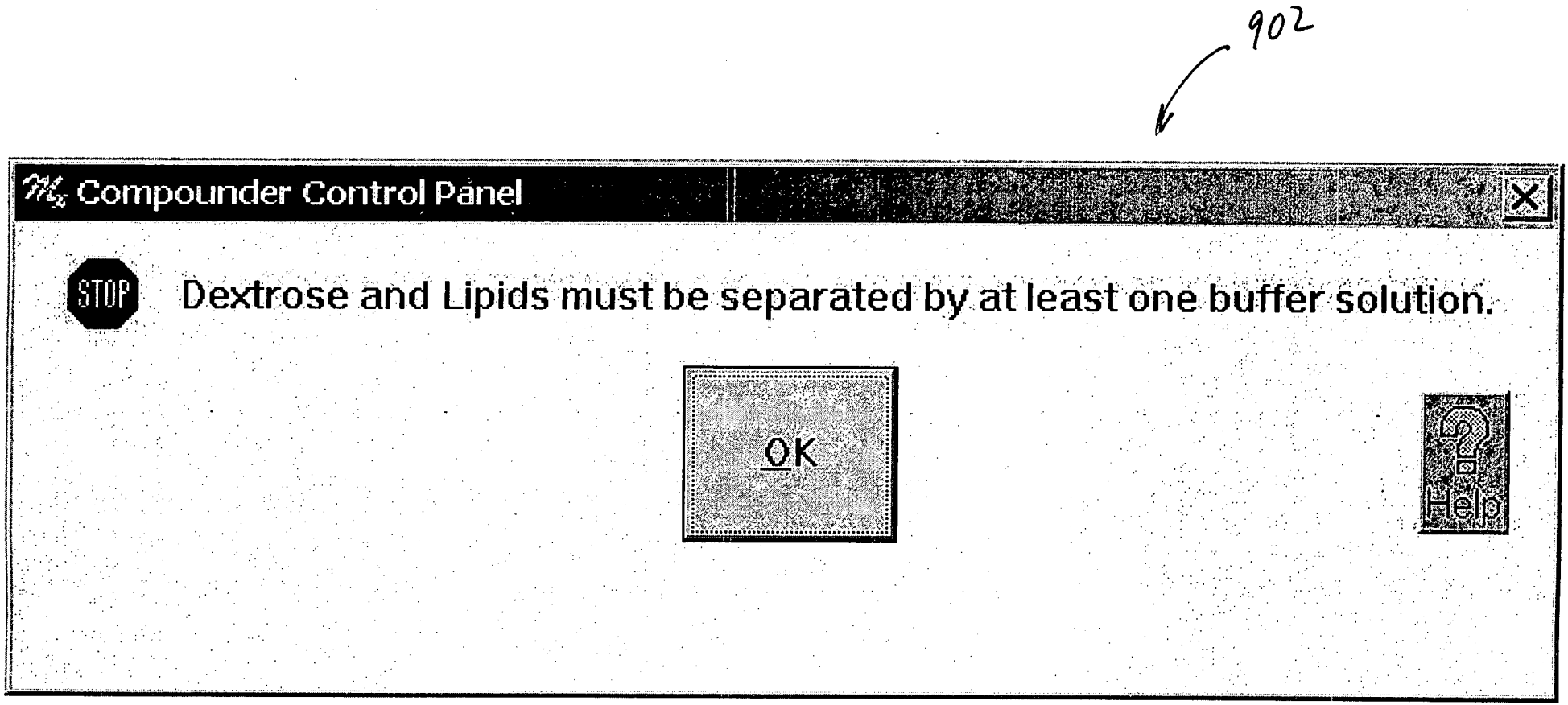

902
Compounder Control Panel
STOP
Dextrose and Lipids must be separated by at least one buffer solution.
OK
Help

FIG. 9G(1)

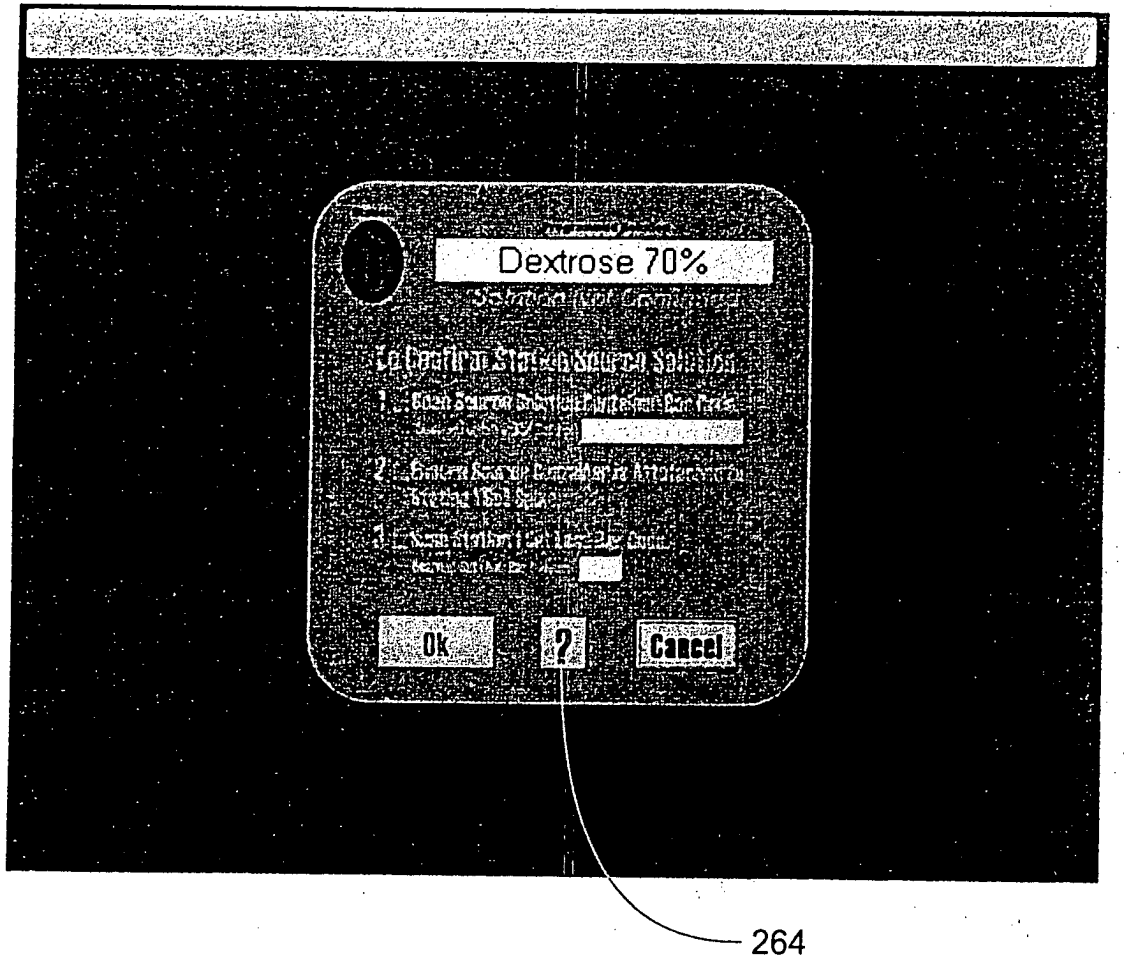


Fig. 9H

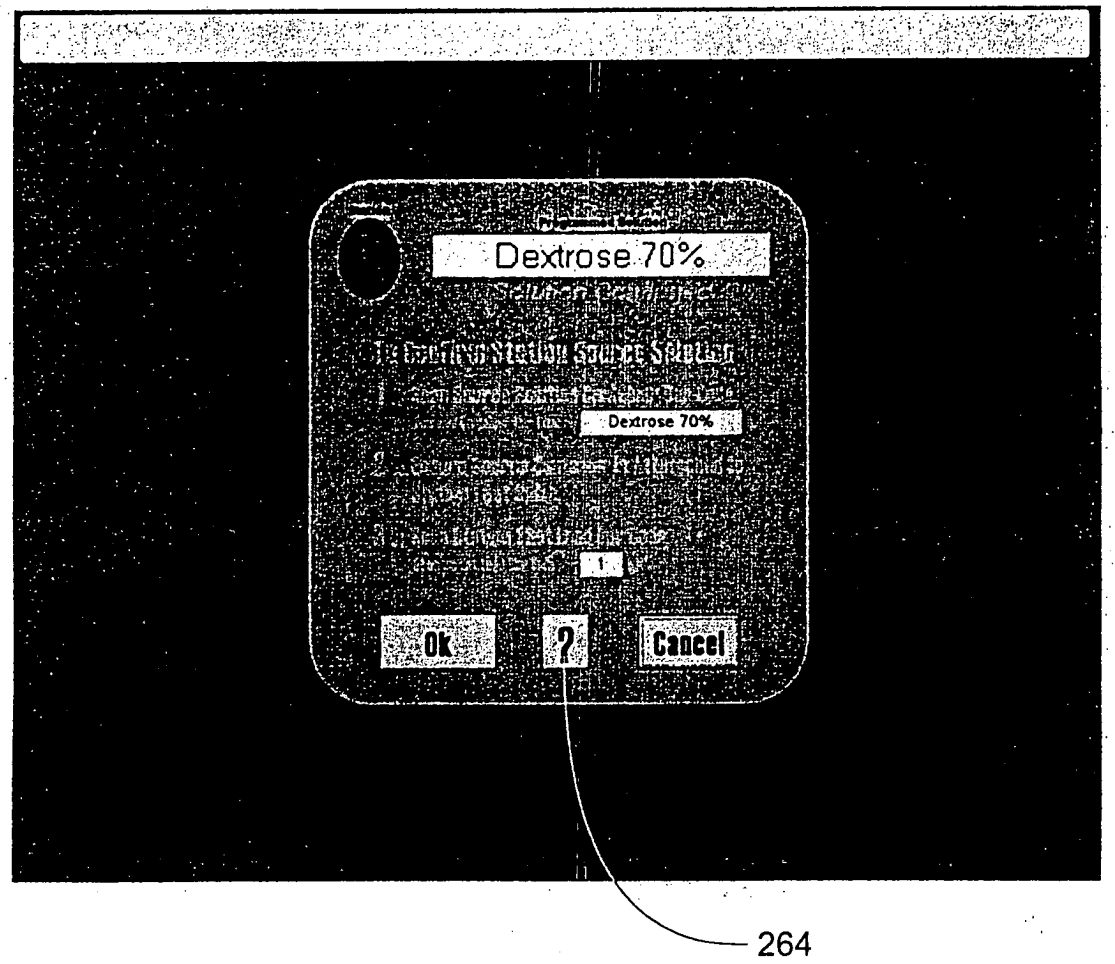


Fig. 9I (1)

900

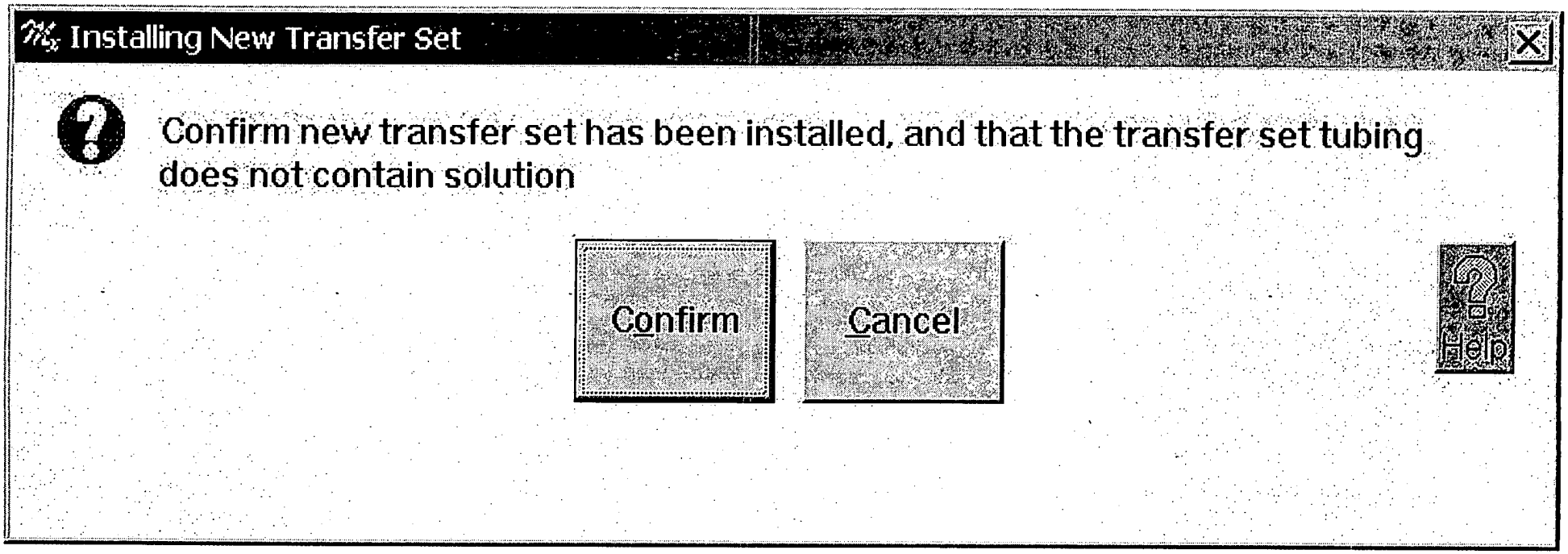

Installing New Transfer Set
Confirm new transfer set has been installed, and that the transfer set tubing does not contain solution
Confirm
Cancel
Help

FIG 9E(2)

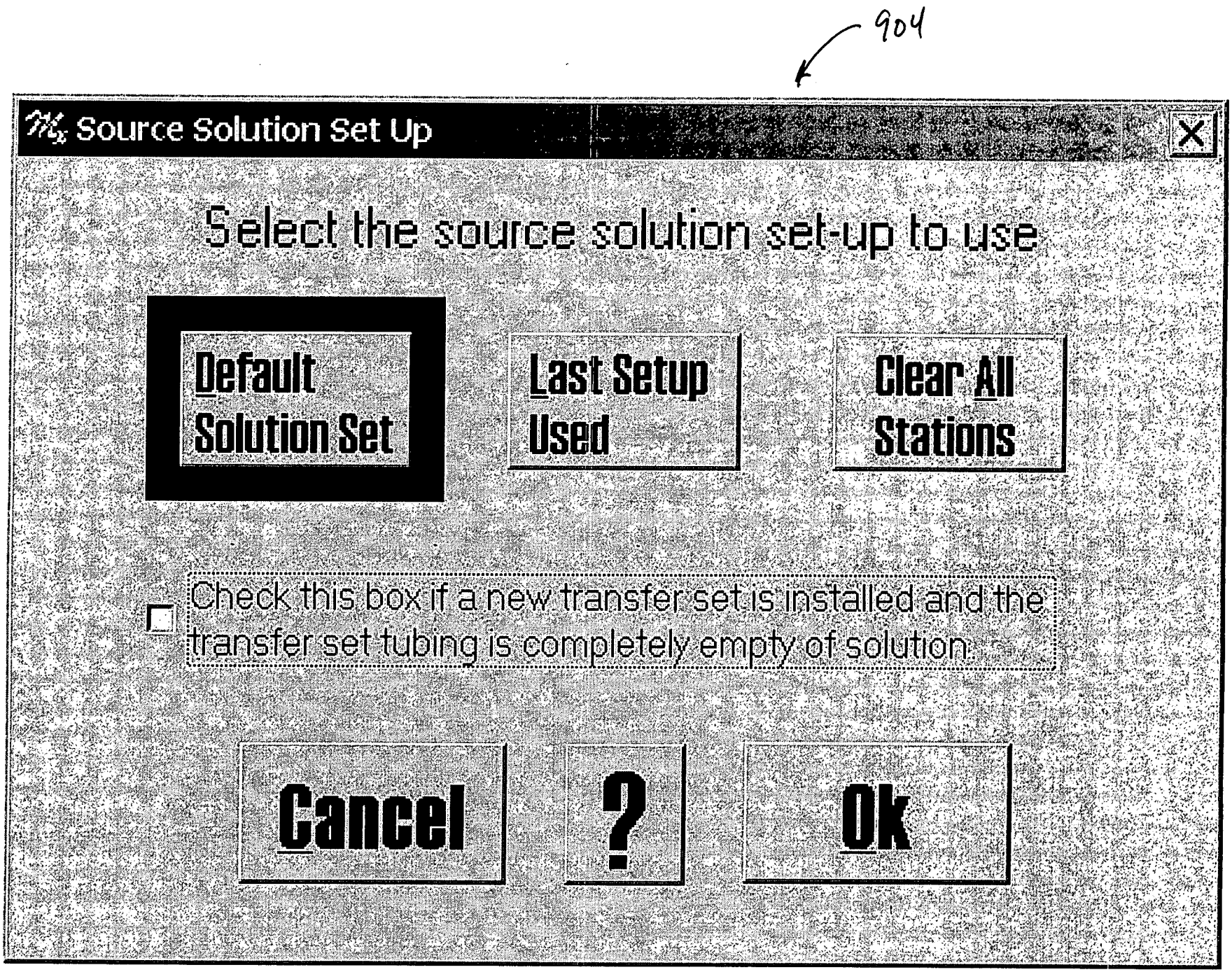

904
Source Solution Set Up
Select the source solution set-up to use
Default Solution Set
Last Setup Used
Clear All Stations
Check this box if a new transfer set is installed and the transfer set tubing is completely empty of solution
Cancel
?
Ok

FIG. 9I(3)

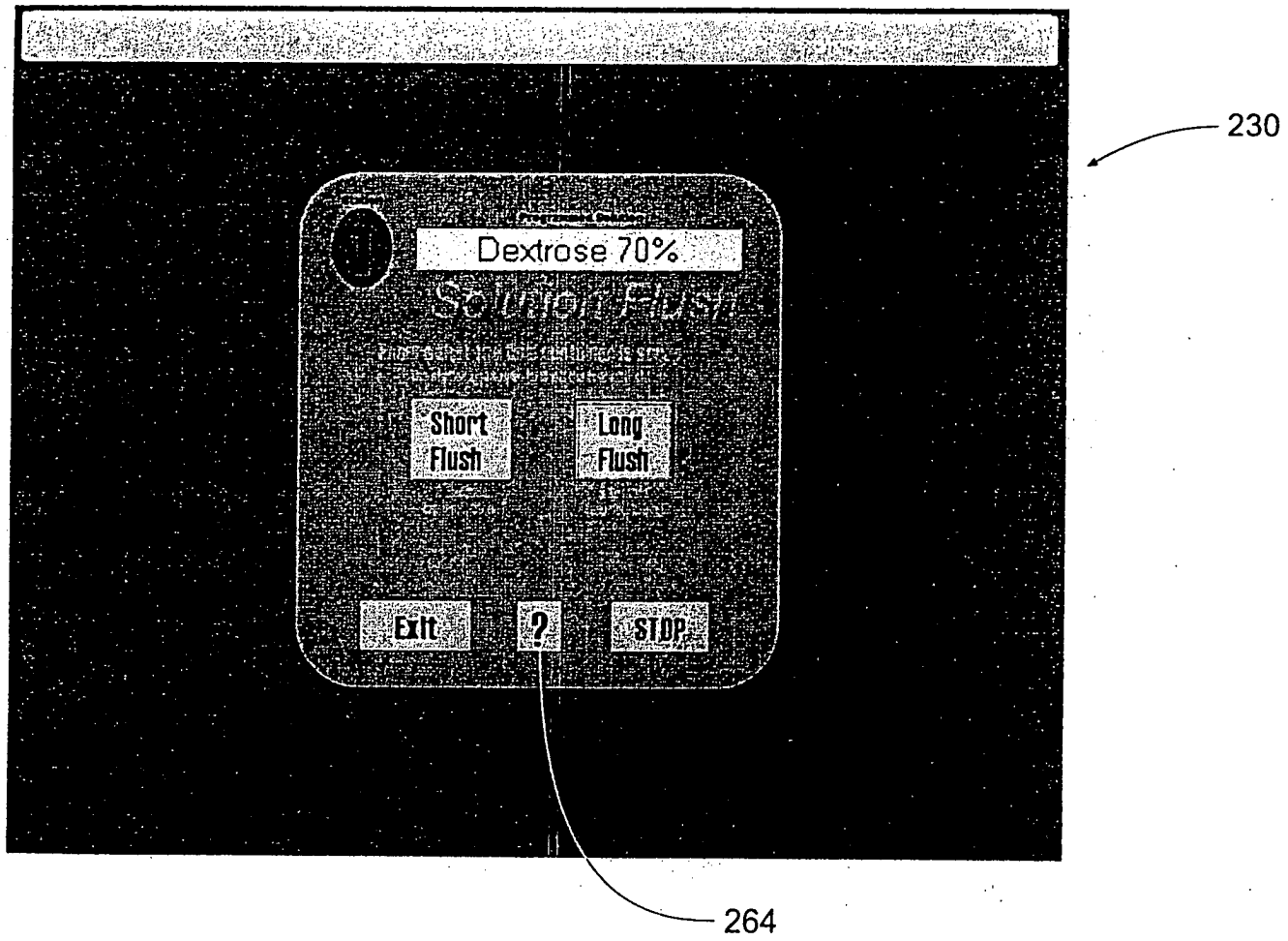

230
Dextrose 70%
Solution Flush
Short Flush
Long Flush
Exit
?
STOP
264

Fig. 9J

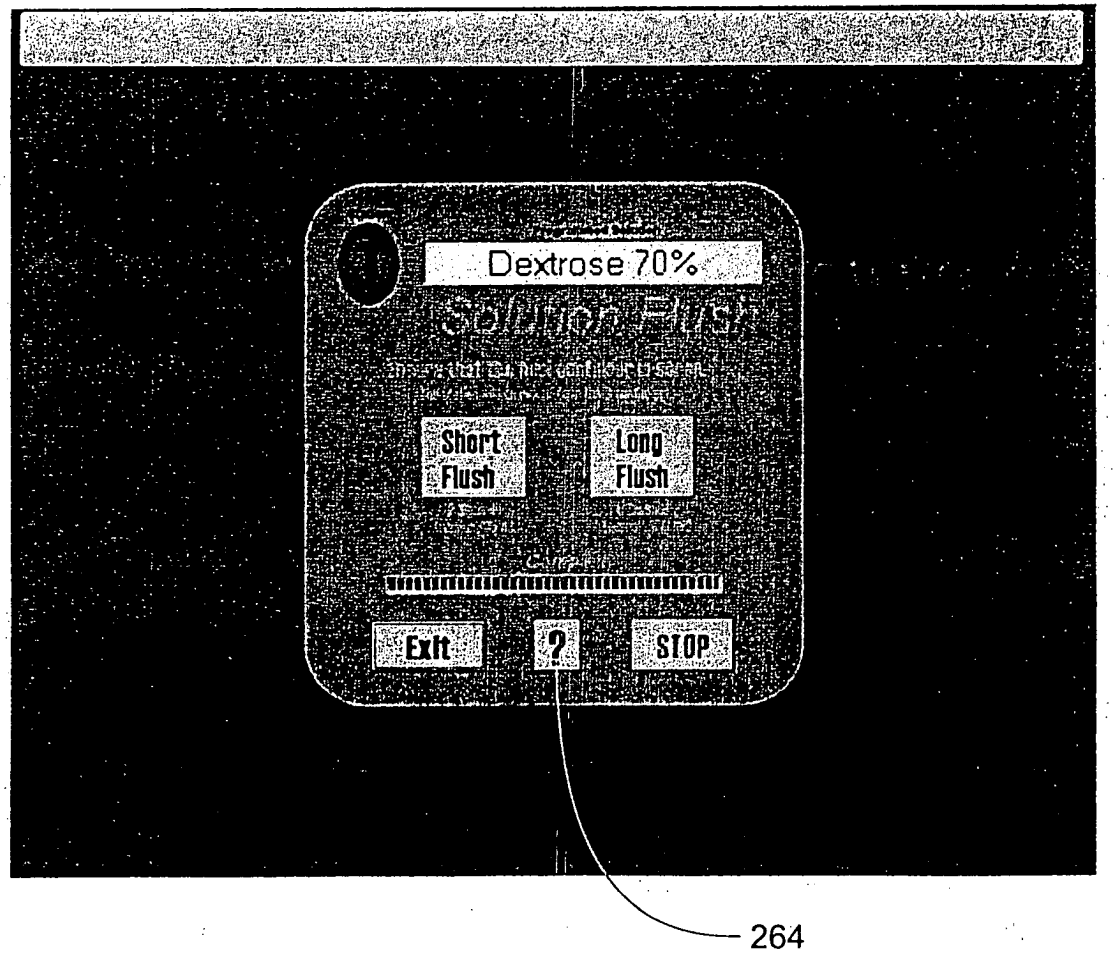


Fig. 9K

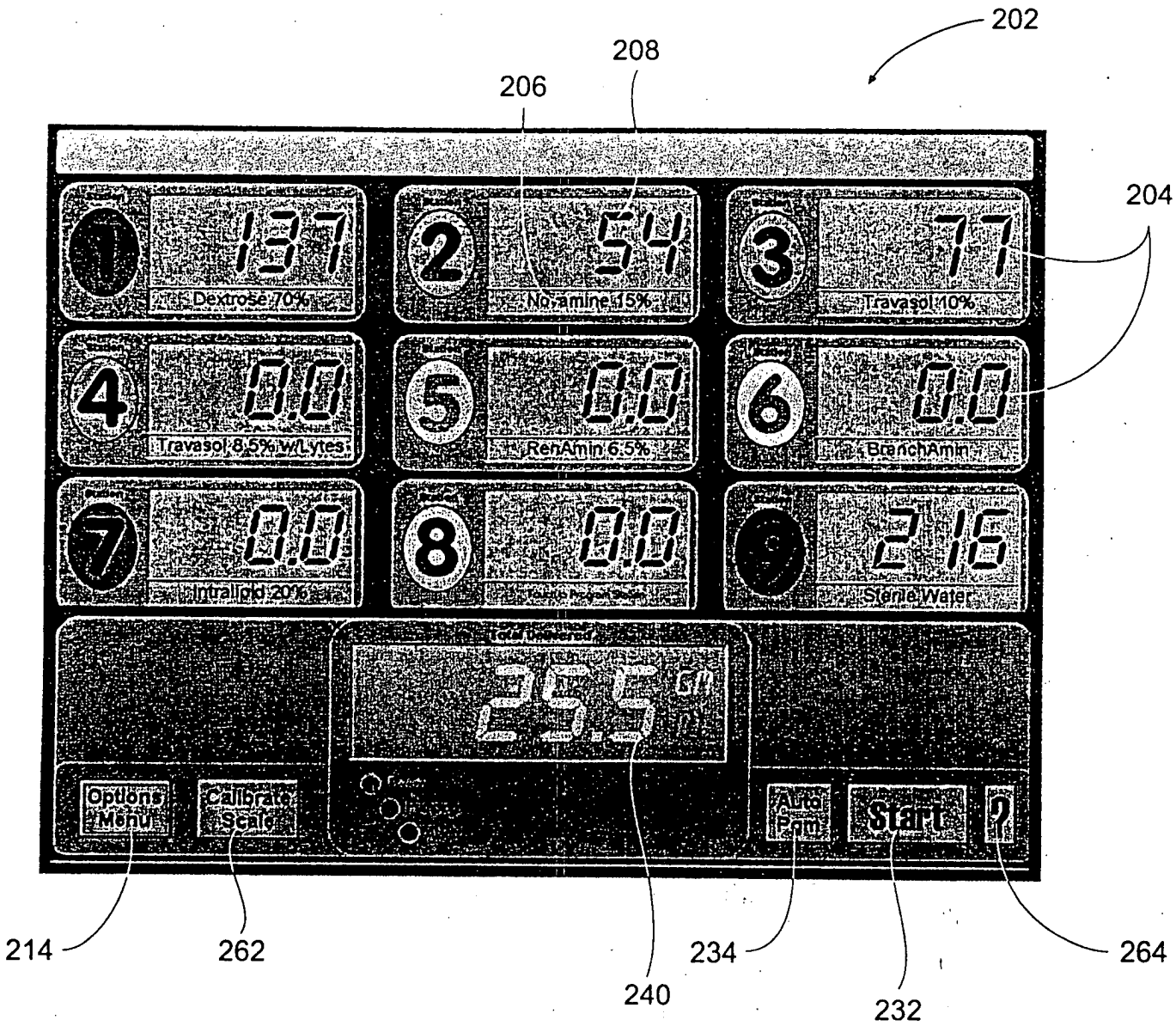

202
208
206
204
1
137
Dextrose 70%
2
54
Novamine 15%
3
77
Travasol 10%
4
0.0
Travasol 8.5% w/Lytes
5
0.0
RenAmin 6.5%
6
0.0
BranchAmin
7
0.0
Intralipid 20%
8
0.0
9
216
Sterile Water
Options Menu
Calibrate Scale
Auto Pour
Start
?
214
262
240
234
232
264

Fig. 9L

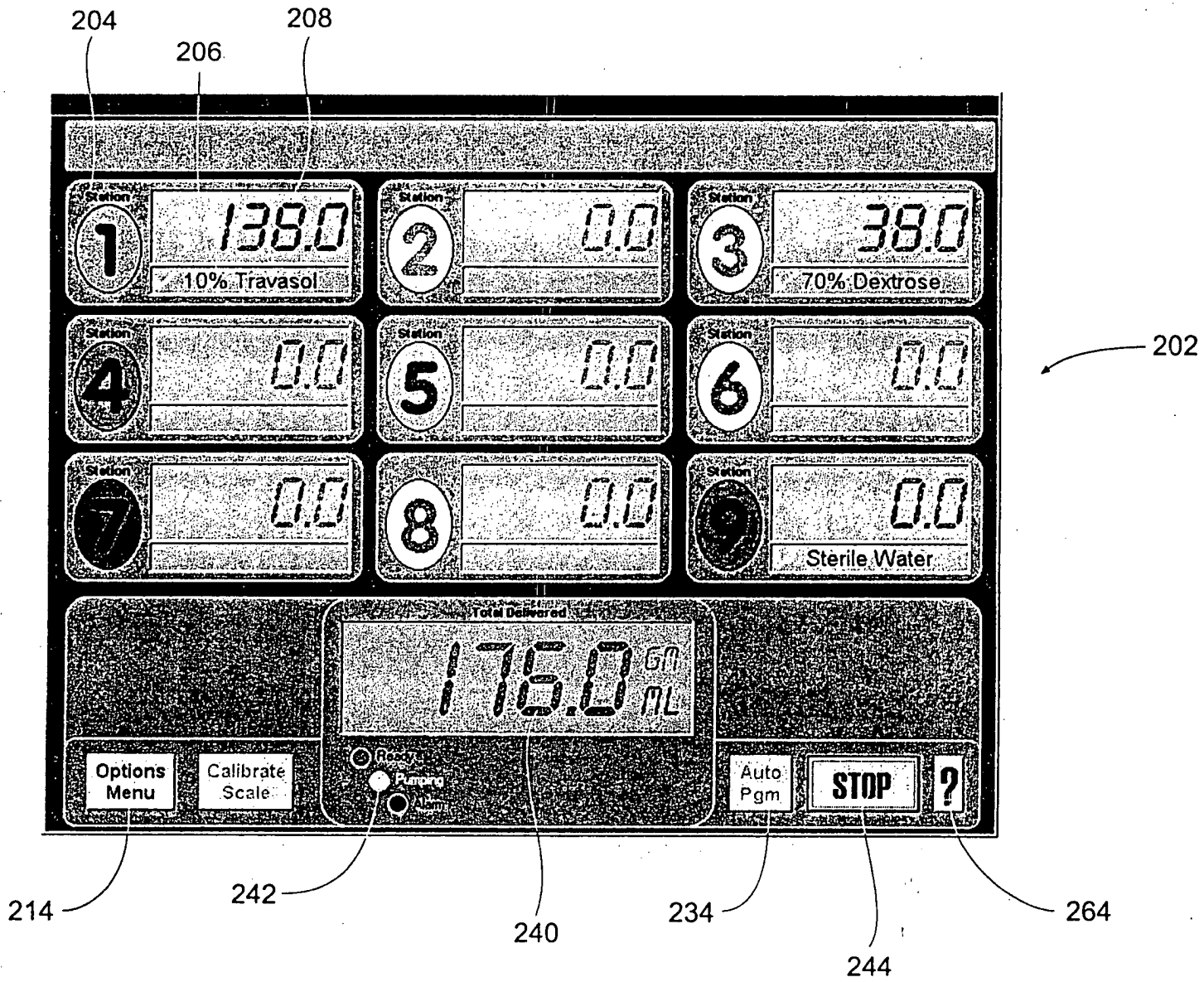

204
206
208
Station 1
138.0
10% Travasol
Station 2
0.0
Station 3
38.0
70% Dextrose
Station 4
0.0
Station 5
0.0
Station 6
0.0
202
Station 7
0.0
Station 8
0.0
Station 9
0.0
Sterile Water
Total Delivered
176.0 GM ML
Options Menu
Calibrate Scale
Ready
Pumping
Alarm
Auto Pgm
STOP
?
214
242
240
234
244
264

Fig. 9M

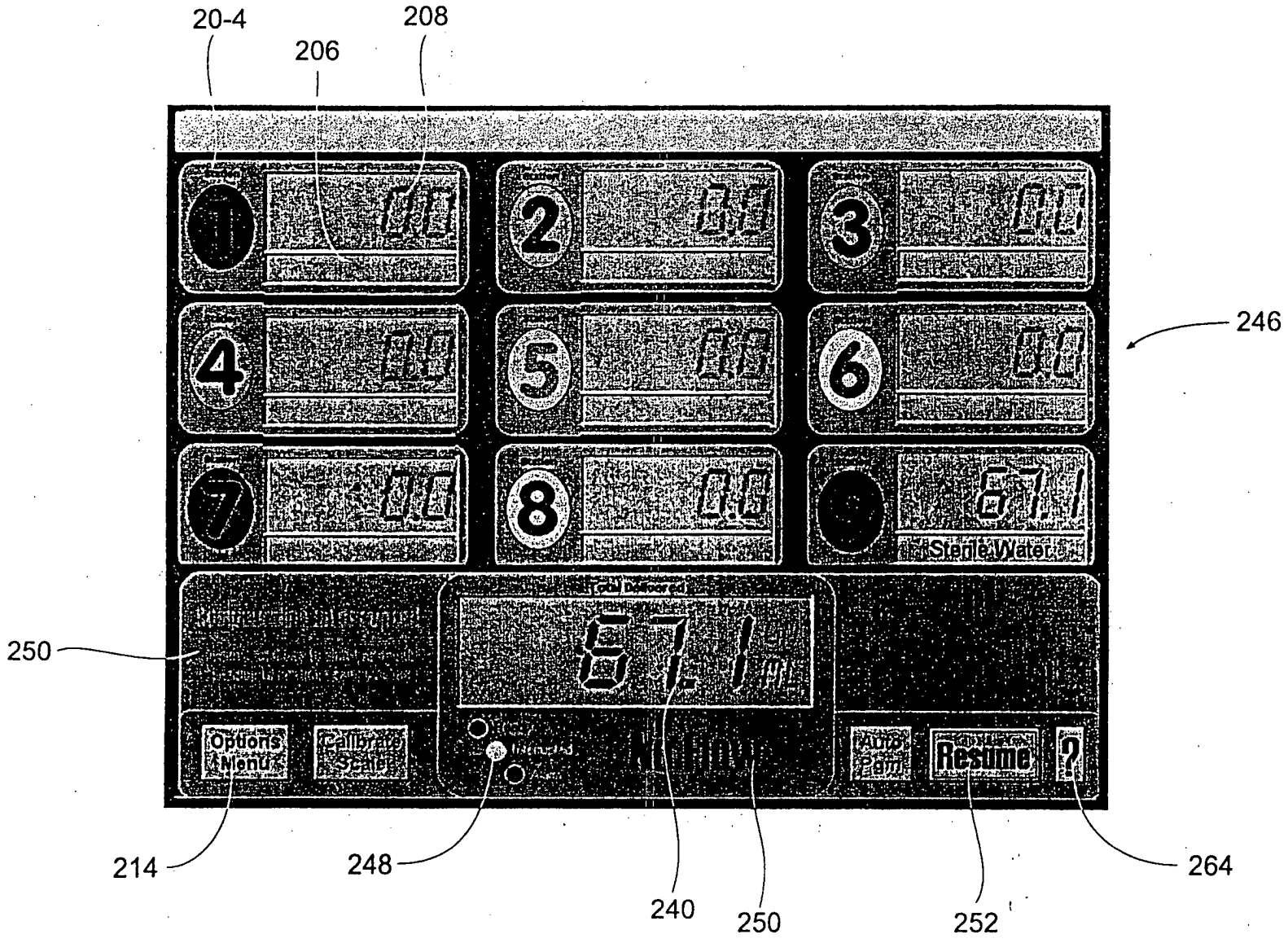

20-4
206
208
246
250
Options Menu
Calibrate Scale
Auto Pour
Resume
?
214
248
240
250
252
264

Fig. 9N

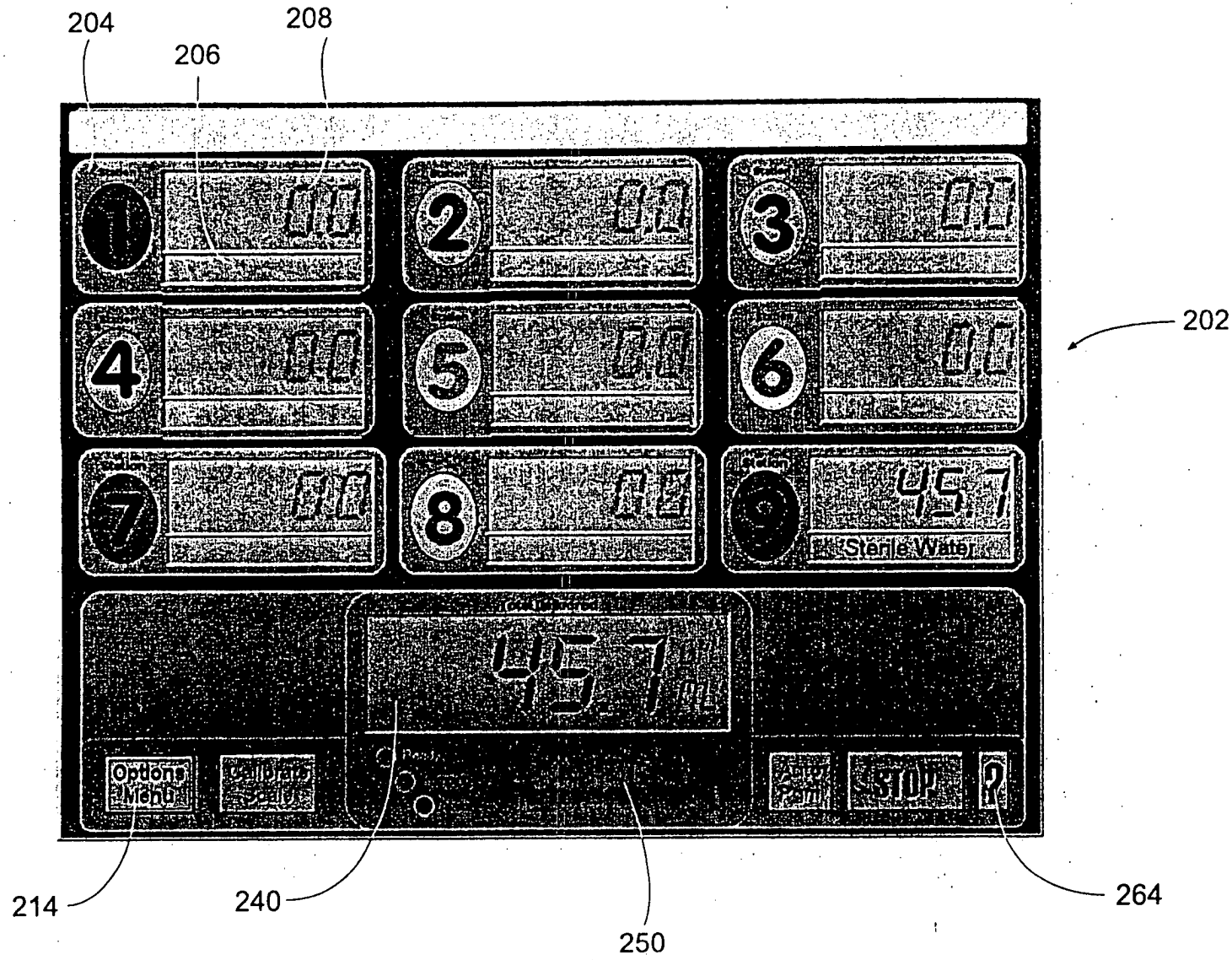

204
206
208
202
1
2
3
4
5
6
7
8
9
95.7
Sterile Water
Options Menu
Calibrate Scale
STOP
214
240
250
264

Fig. 9O

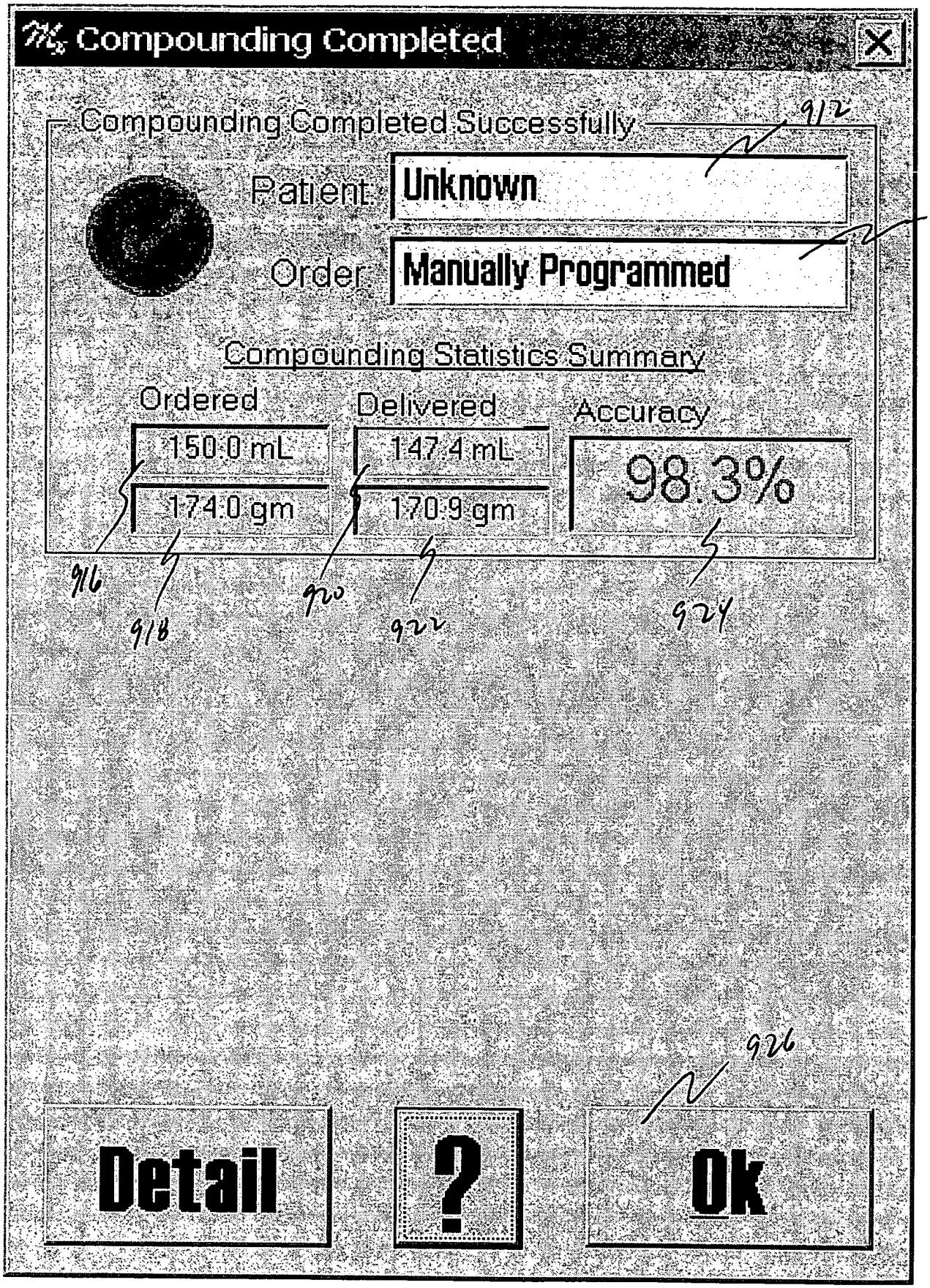

910
Compounding Completed
Compounding Completed Successfully
912
Patient: Unknown
914
Order: Manually Programmed
Compounding Statistics Summary
Ordered
150.0 mL
174.0 gm
Delivered
147.4 mL
170.9 gm
Accuracy
98.3%
916
918
920
922
924
926
Detail
?
Ok

FIG 90(1)

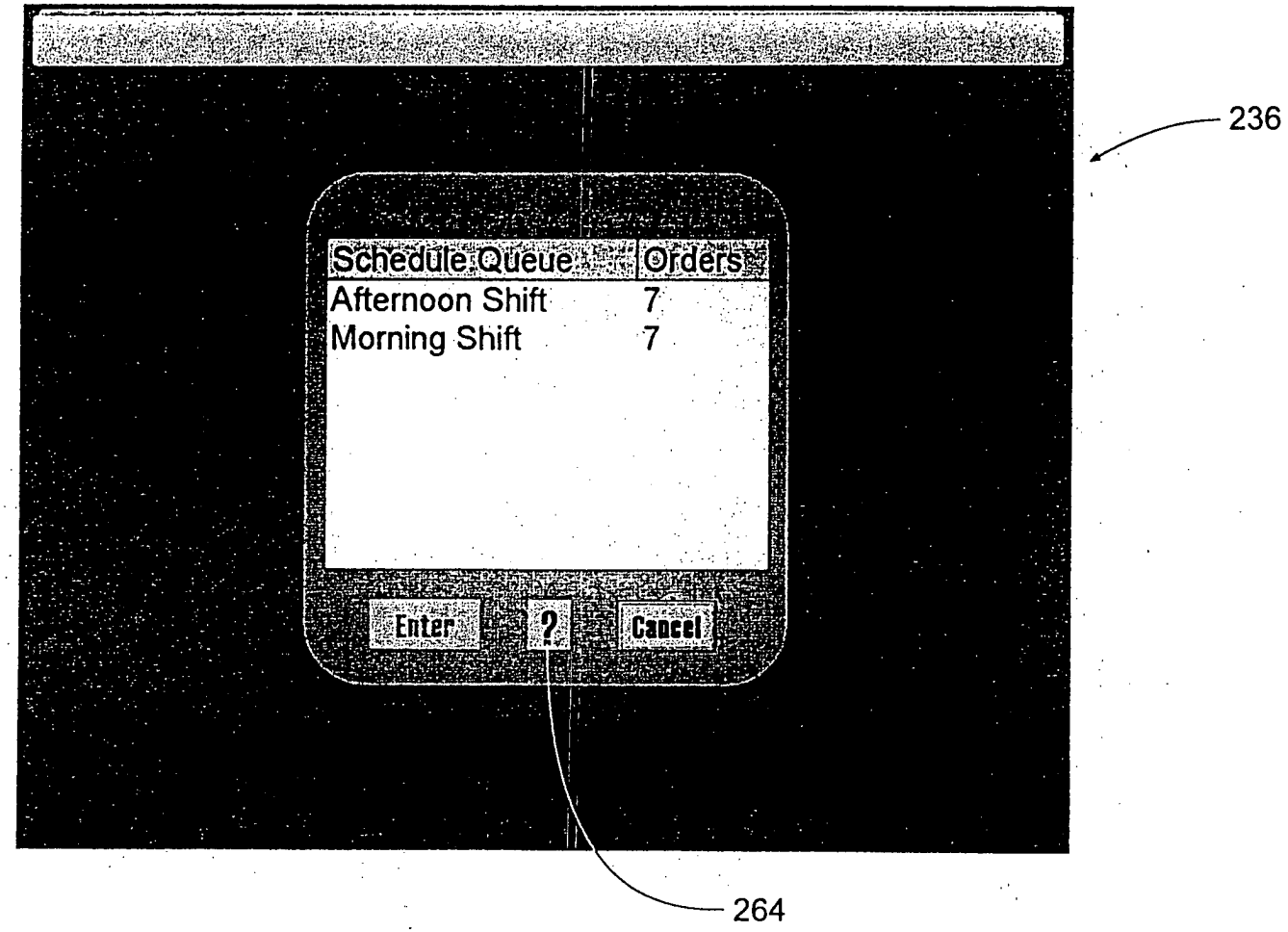

236
Schedule Queue
Orders
Afternoon Shift
7
Morning Shift
7
Enter
?
Cancel
264

Fig. 9P

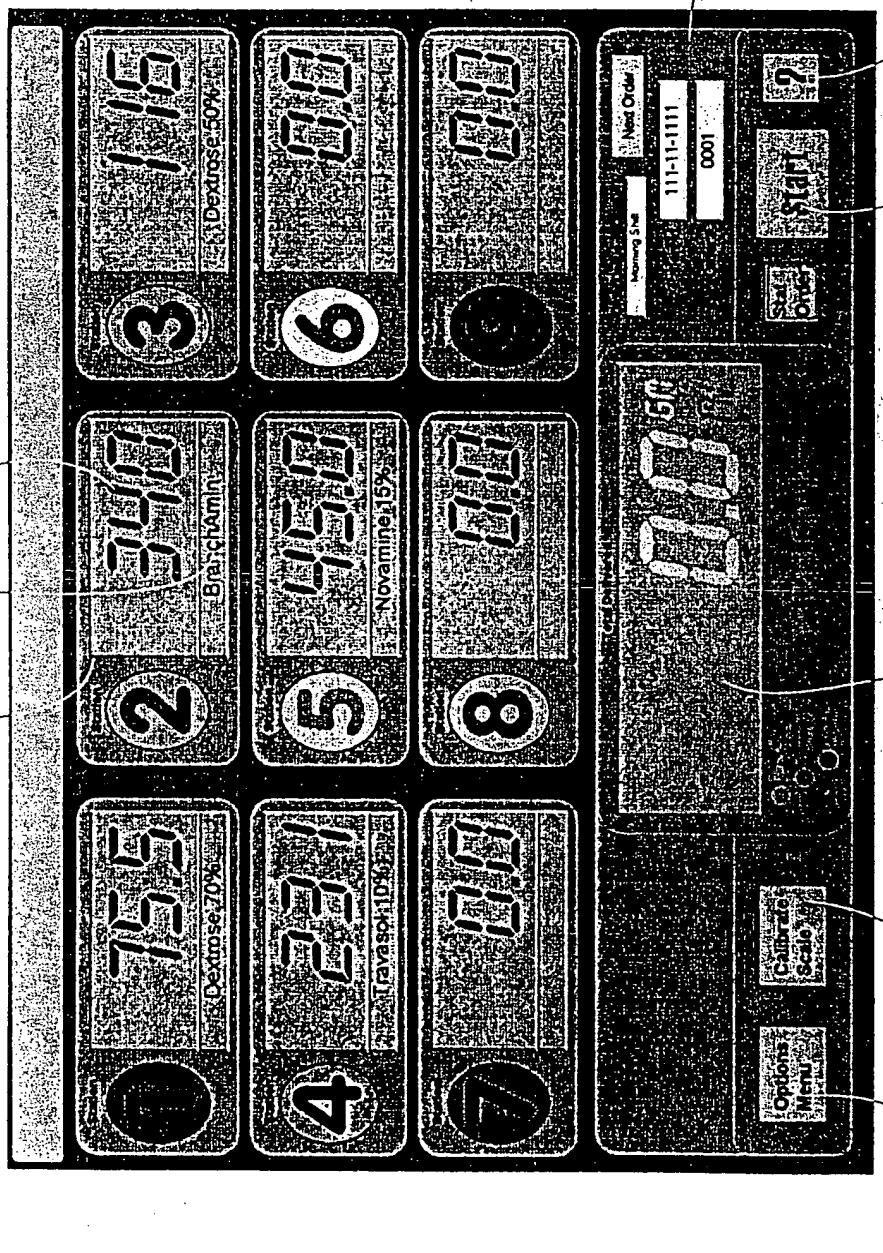

202
208
206
204
238
264
232
240
262
214
Dextrose 50%
Dextrose 70%
Novamine 15%
Travasol 10%
Need Order
111-11-1111
0001
Start
Options Menu
Calibrate Scale

Fig. 9Q

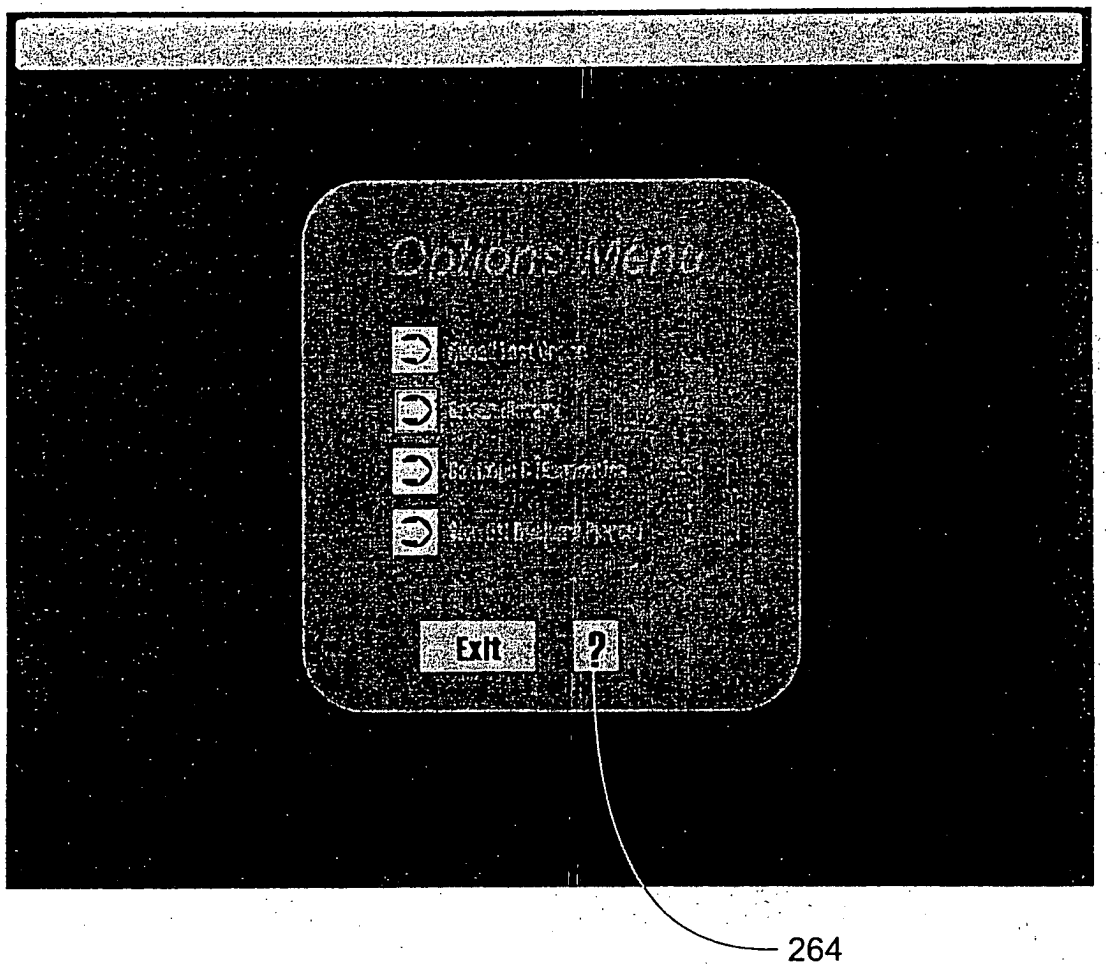


Fig. 9R

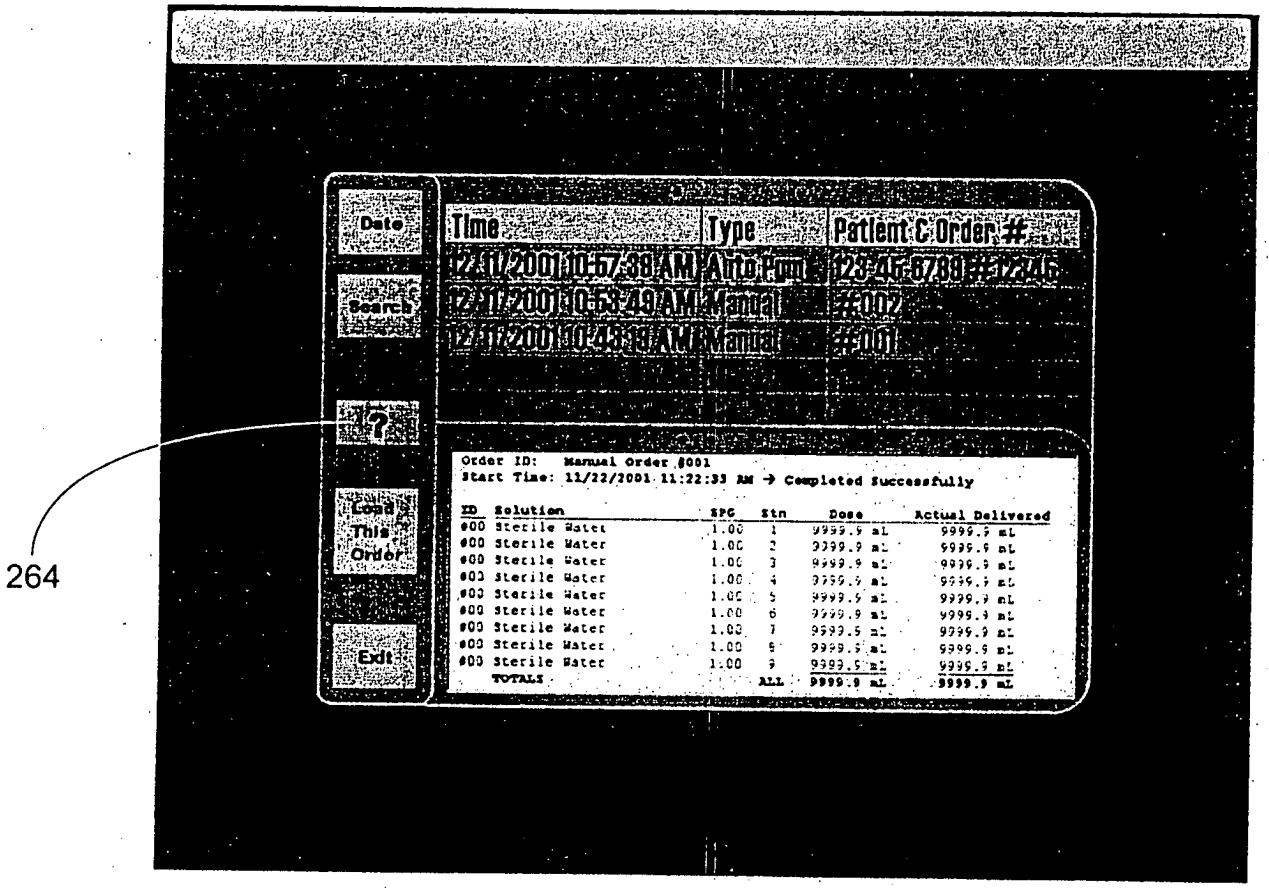

258
264
Date
Search
Load This Order
Exit
Time
Type
Patient C
Order #
2/11/2001 10:57:38 AM
Auto Form
123-45-6789
#1246
2/11/2001 10:53:49 AM
Manual
#002
2/11/2001 10:48:13 AM
Manual
#001
Order ID: Manual Order #001
Start Time: 11/22/2001 11:22:33 AM → Completed Successfully
ID
Solution
SPG
Stn
Dose
Actual Delivered
#00 Sterile Water 1.00 1 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 2 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 3 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 4 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 5 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 6 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 7 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 8 9999.9 mL 9999.9 mL
#00 Sterile Water 1.00 9 9999.9 mL 9999.9 mL
TOTALS ALL 9999.9 mL 9999.9 mL

Fig. 9S

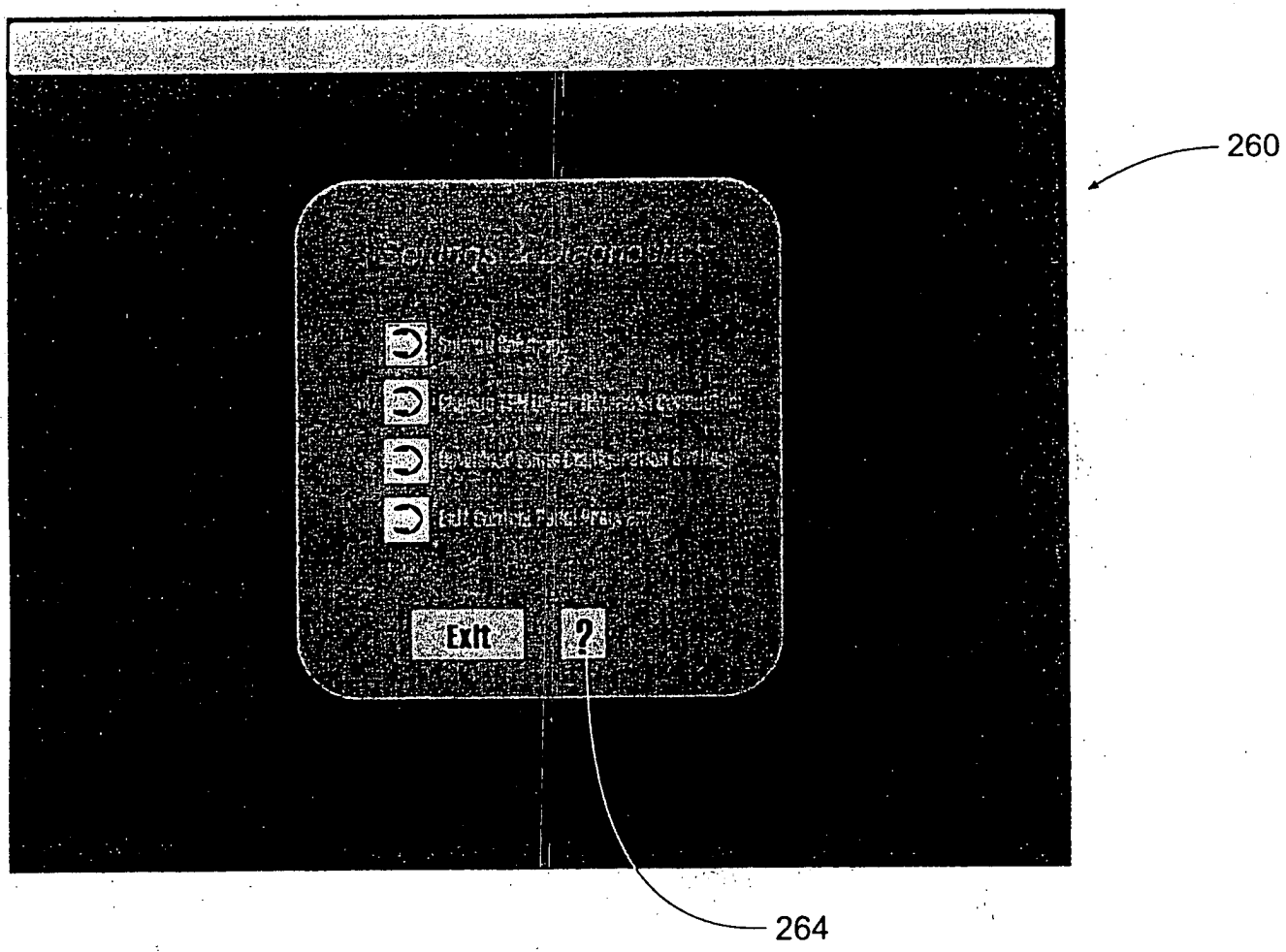


Fig. 9T

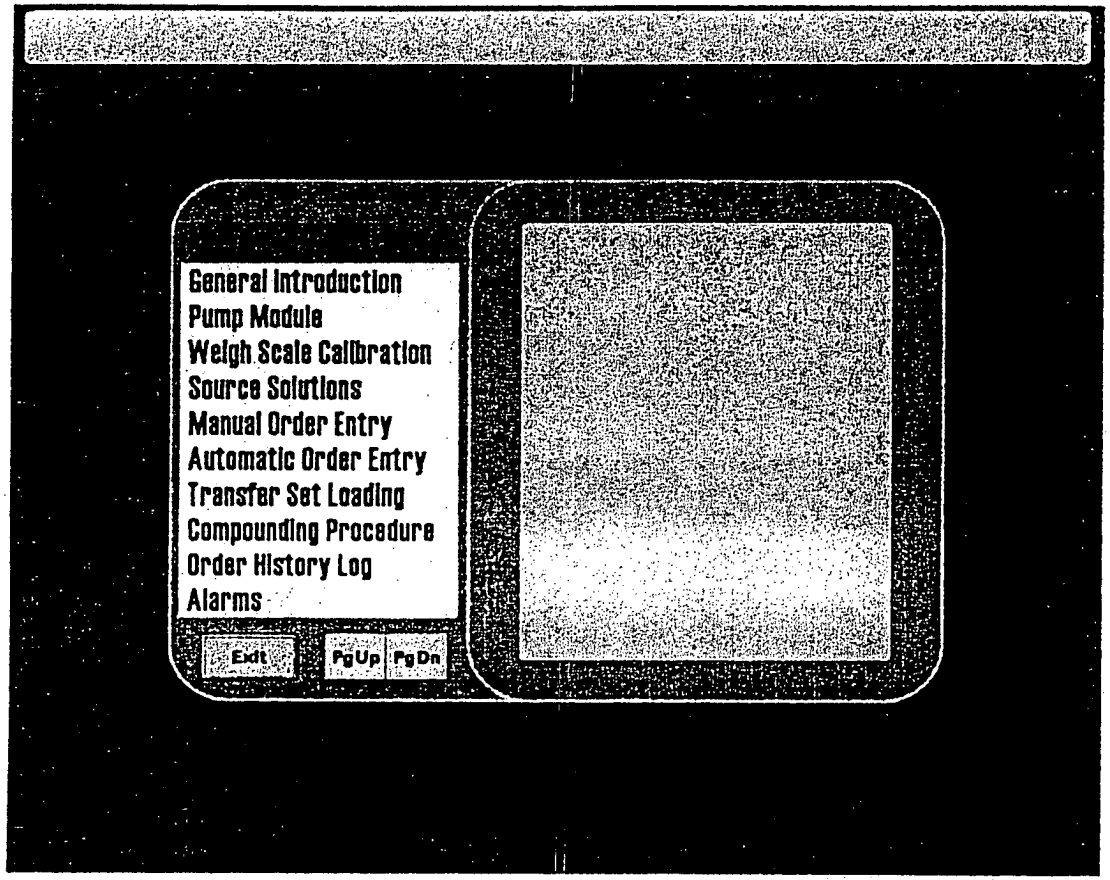

266
General Introduction
Pump Module
Weigh Scale Calibration
Source Solutions
Manual Order Entry
Automatic Order Entry
Transfer Set Loading
Compounding Procedure
Order History Log
Alarms
Exit
Pg Up
Pg Dn

Fig. 9U

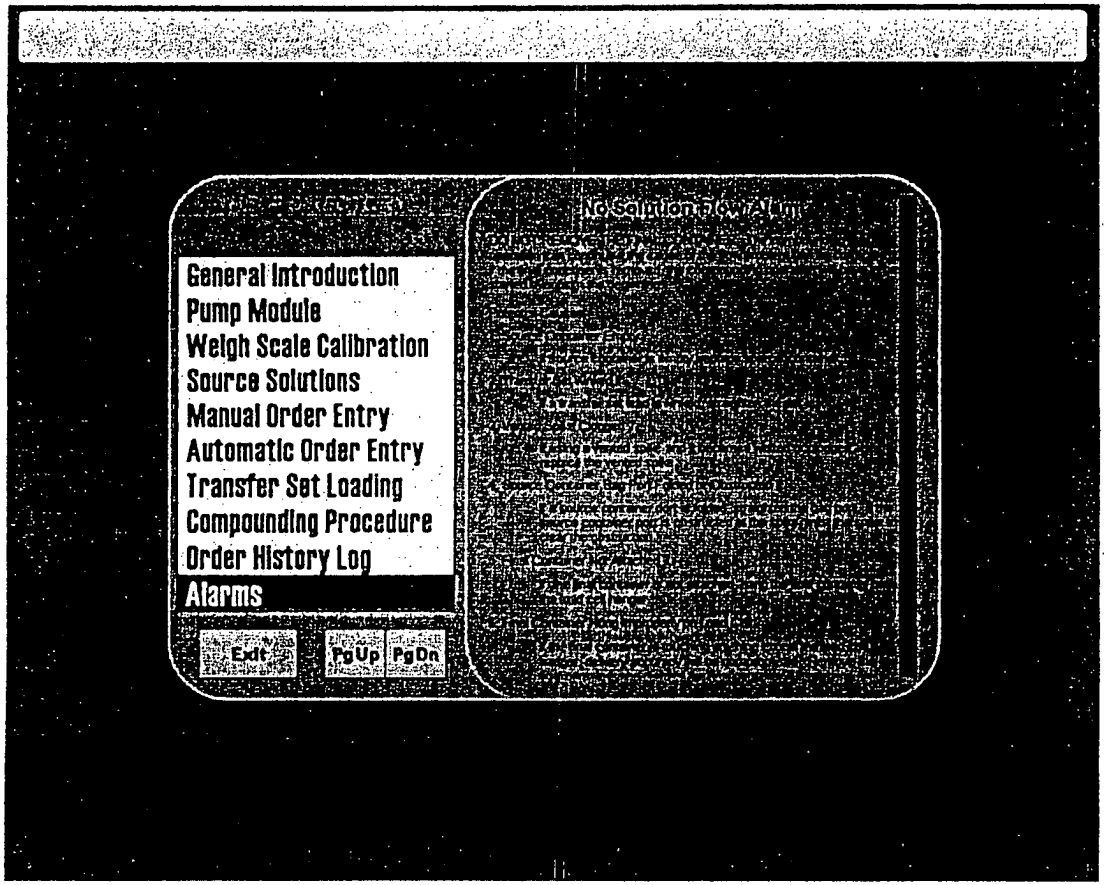

268
General Introduction
Pump Module
Weigh Scale Calibration
Source Solutions
Manual Order Entry
Automatic Order Entry
Transfer Set Loading
Compounding Procedure
Order History Log
Alarms
Exit
PgUp
PgDn

Fig. 9V

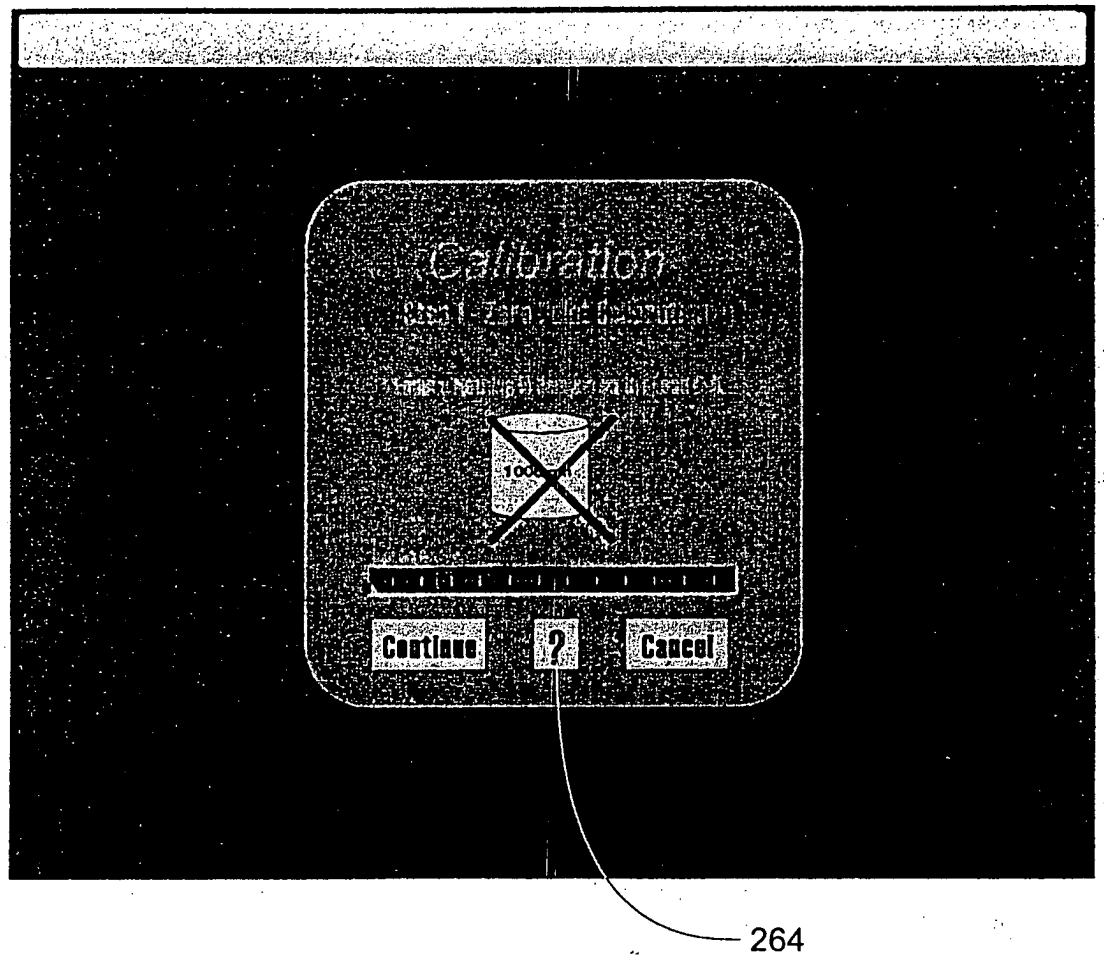


Fig. 9W

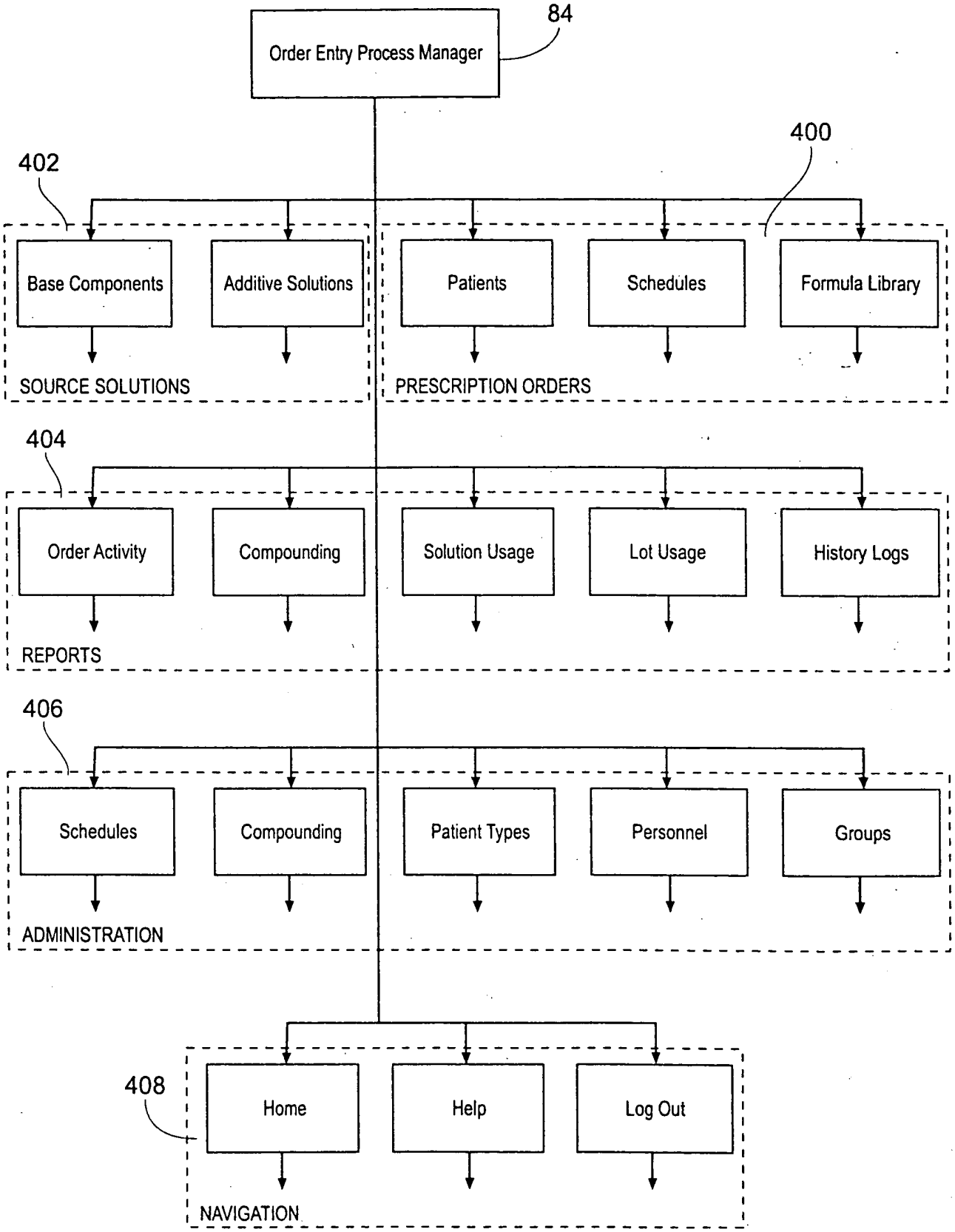
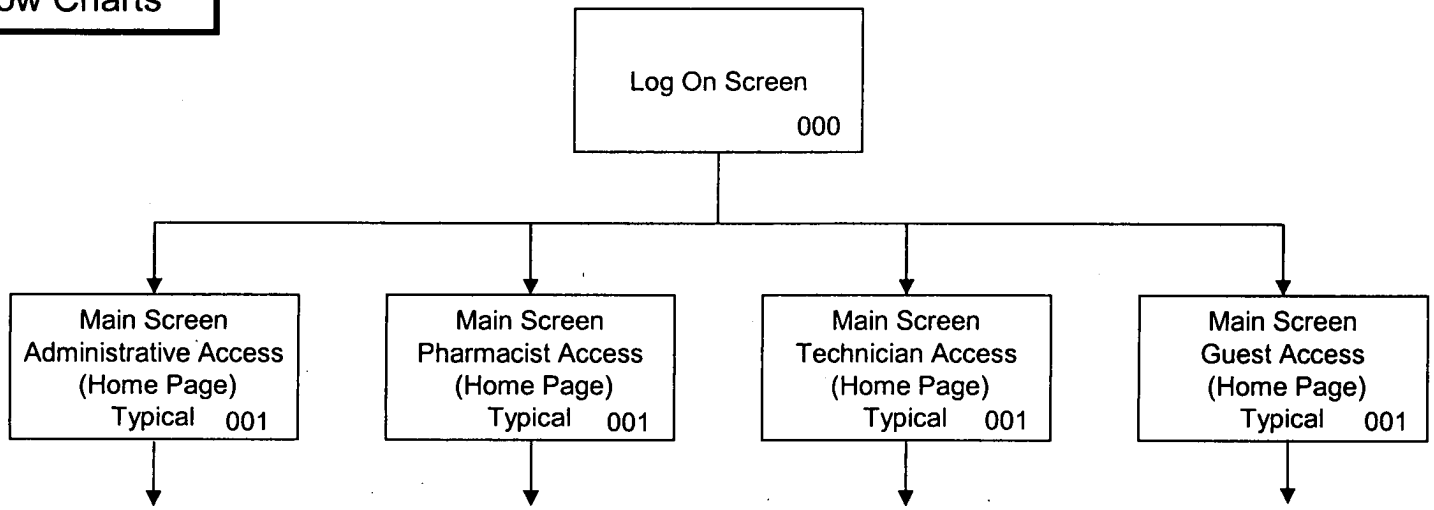

Order Entry Process Manager
84
400
402
Base Components
Additive Solutions
Patients
Schedules
Formula Library
SOURCE SOLUTIONS
PRESCRIPTION ORDERS
404
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
REPORTS
406
Schedules
Compounding
Patient Types
Personnel
Groups
ADMINISTRATION
408
Home
Help
Log Out
NAVIGATION

Fig. 10A (1)

TPN Order Entry System Flow Charts



Notes: Above access levels are "typical." Access to system functionality is a direct function of the individual's granted access options.

Access titles (e.g., Administrative, Pharmacist, etc.) are not fixed and are instead examples of the type of levels that can be set up by the user.

Screen numbers are three digit code located in lower right corner of each flow chart box.

Fig 10A(2)

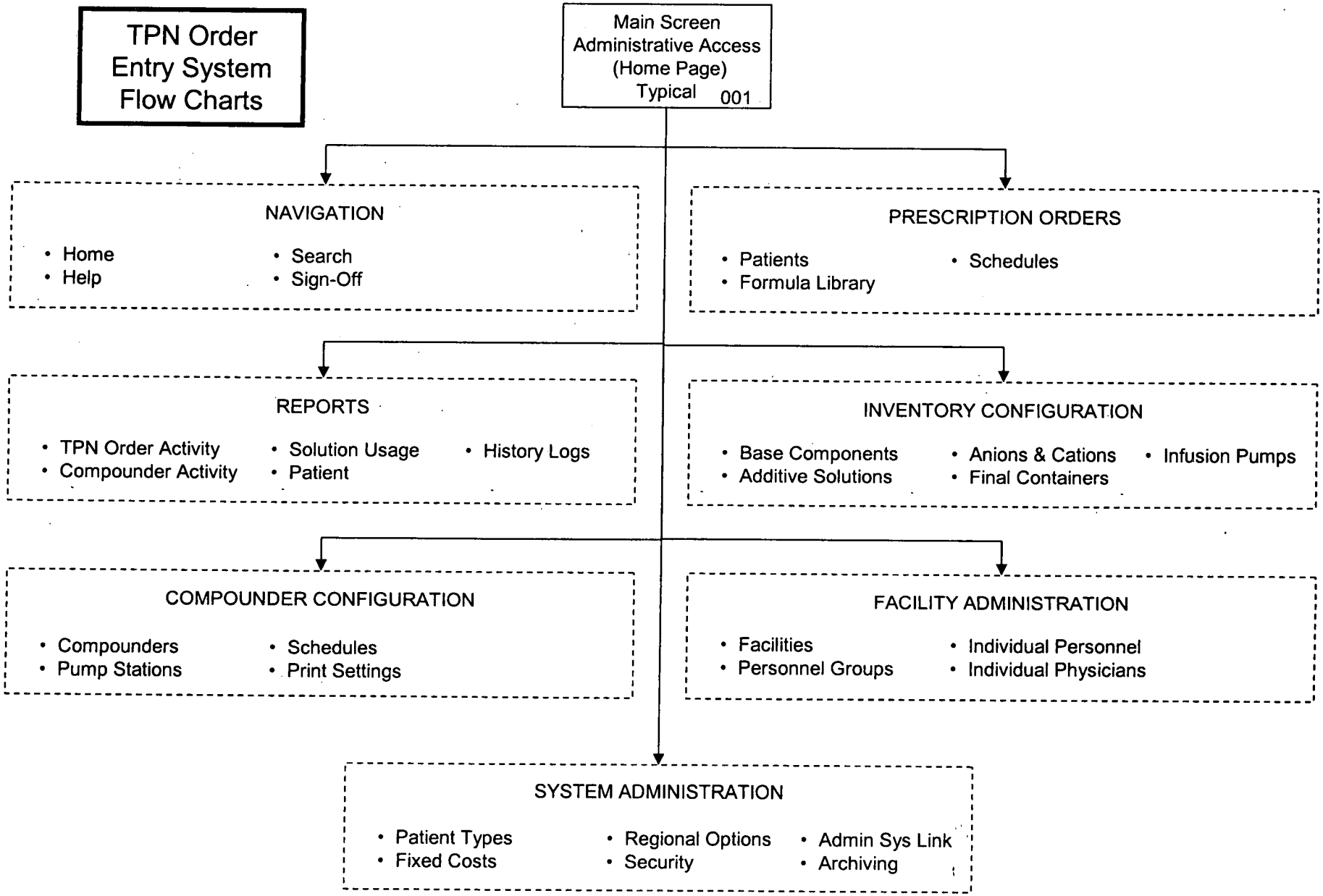

TPN Order Entry System Flow Charts
Main Screen Administrative Access (Home Page) Typical 001
NAVIGATION
• Home
• Help
• Search
• Sign-Off
PRESCRIPTION ORDERS
• Patients
• Formula Library
• Schedules
REPORTS
• TPN Order Activity
• Compounder Activity
• Solution Usage
• Patient
• History Logs
INVENTORY CONFIGURATION
• Base Components
• Additive Solutions
• Anions & Cations
• Final Containers
• Infusion Pumps
COMPOUNDER CONFIGURATION
• Compounders
• Pump Stations
• Schedules
• Print Settings
FACILITY ADMINISTRATION
• Facilities
• Personnel Groups
• Individual Personnel
• Individual Physicians
SYSTEM ADMINISTRATION
• Patient Types
• Fixed Costs
• Regional Options
• Security
• Admin Sys Link
• Archiving

Fig 10A(3)

TPN Order Entry System Flow Charts

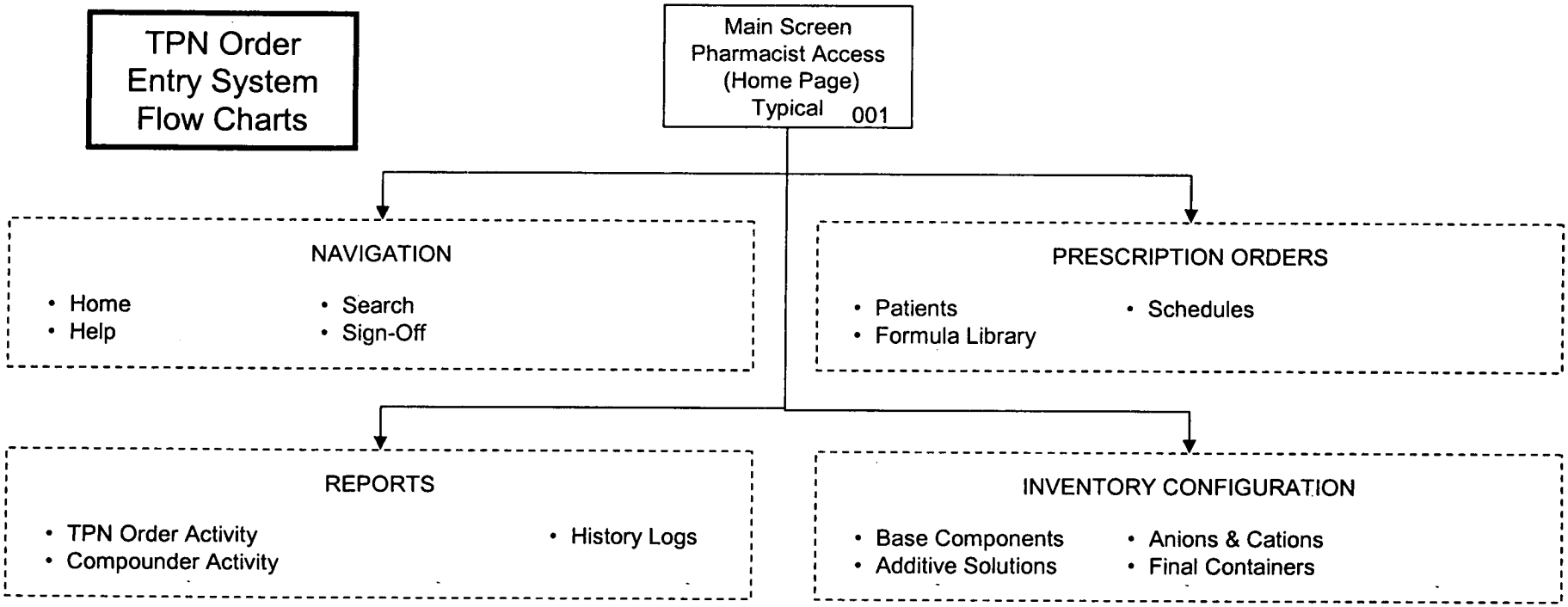


FIG 10A(4)

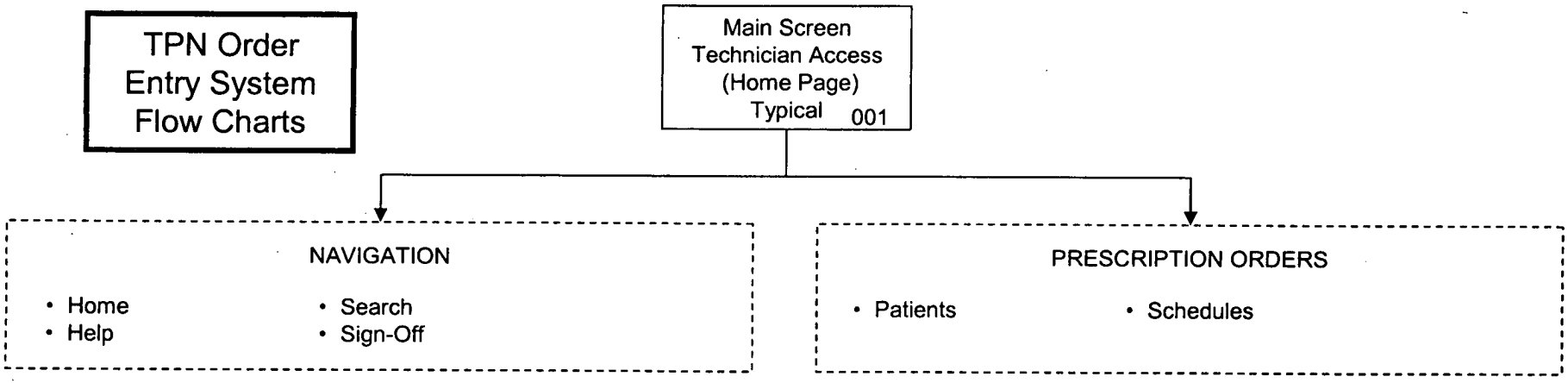

TPN Order Entry System Flow Charts
Main Screen Technician Access (Home Page) Typical 001
NAVIGATION
• Home
• Help
• Search
• Sign-Off
PRESCRIPTION ORDERS
• Patients
• Schedules

Fig 10A(5)

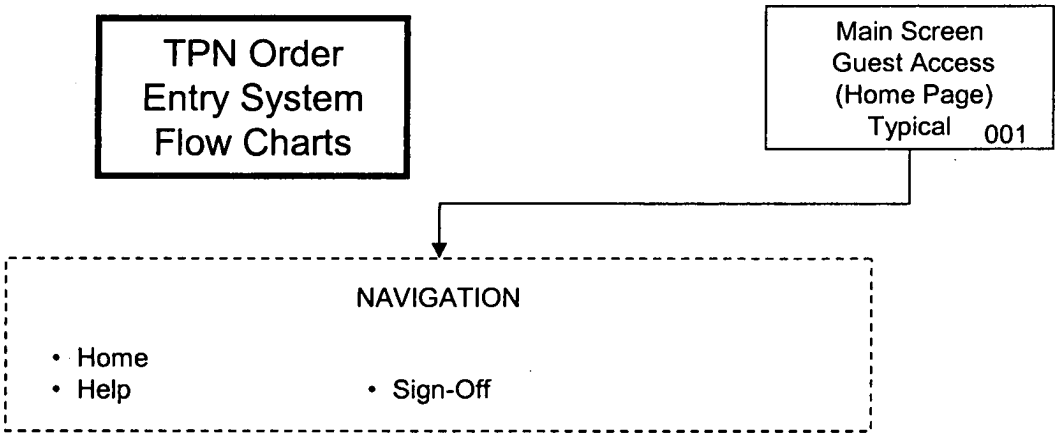

TPN Order Entry System Flow Charts
Main Screen Guest Access (Home Page) Typical 001
NAVIGATION
• Home
• Help
• Sign-Off

Fig 10A(6)

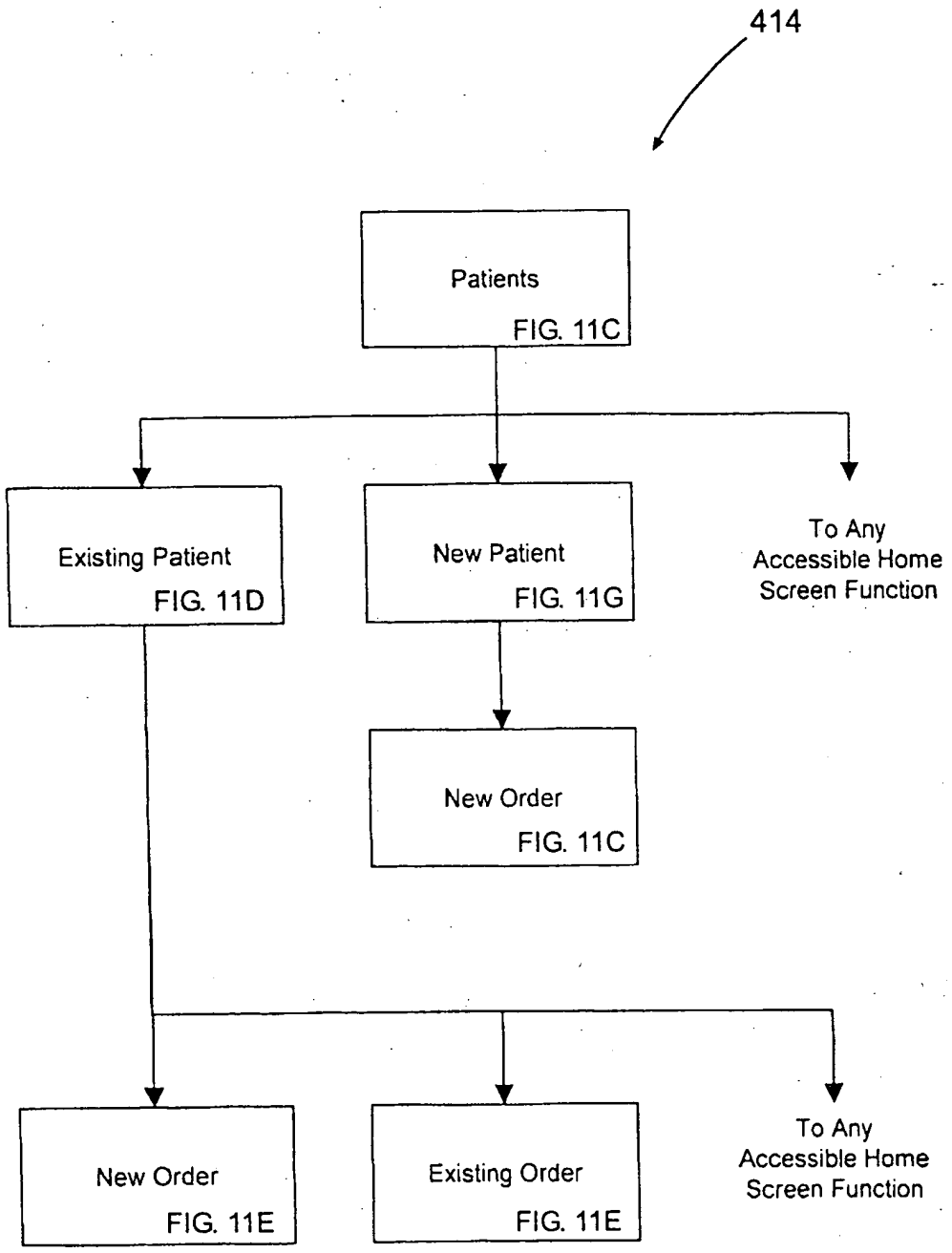

414
Patients
FIG. 11C
Existing Patient
FIG. 11D
New Patient
FIG. 11G
To Any
Accessible Home
Screen Function
New Order
FIG. 11C
New Order
FIG. 11E
Existing Order
FIG. 11E
To Any
Accessible Home
Screen Function

Fig. 10B

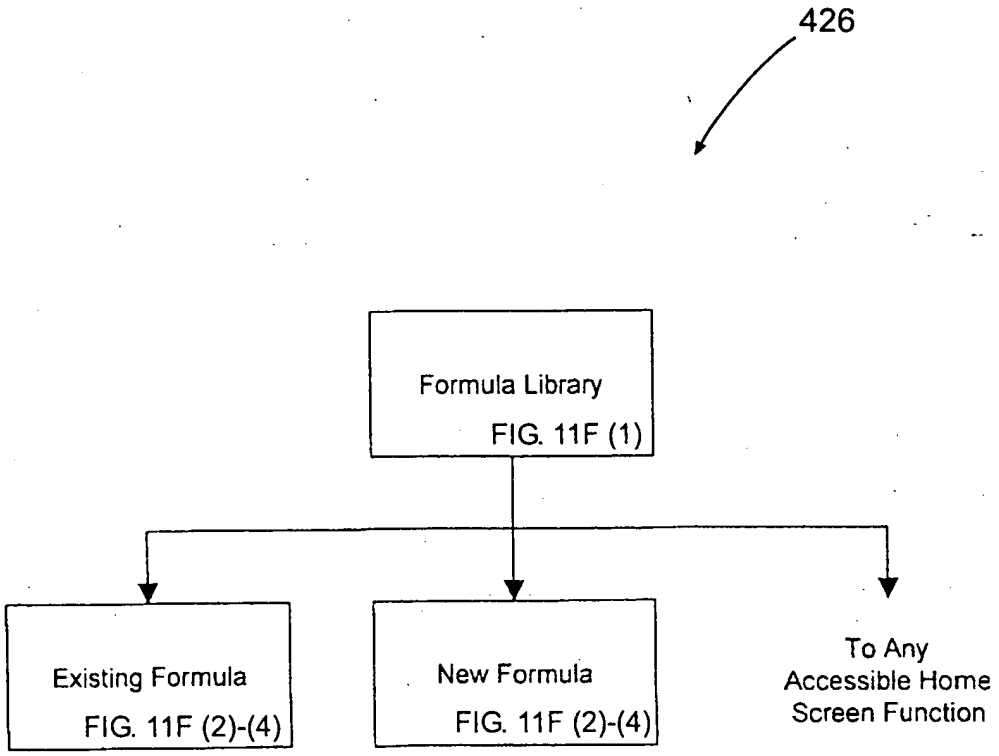

426
Formula Library
FIG. 11F (1)
Existing Formula
FIG. 11F (2)-(4)
New Formula
FIG. 11F (2)-(4)
To Any
Accessible Home
Screen Function

Fig. 10C

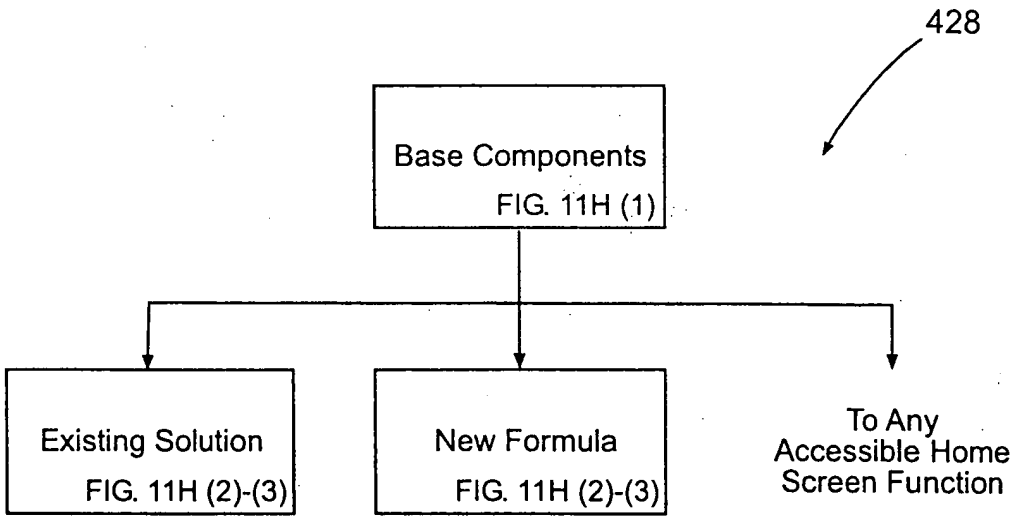

428
Base Components
FIG. 11H (1)
Existing Solution
FIG. 11H (2)-(3)
New Formula
FIG. 11H (2)-(3)
To Any
Accessible Home
Screen Function

Fig. 10D

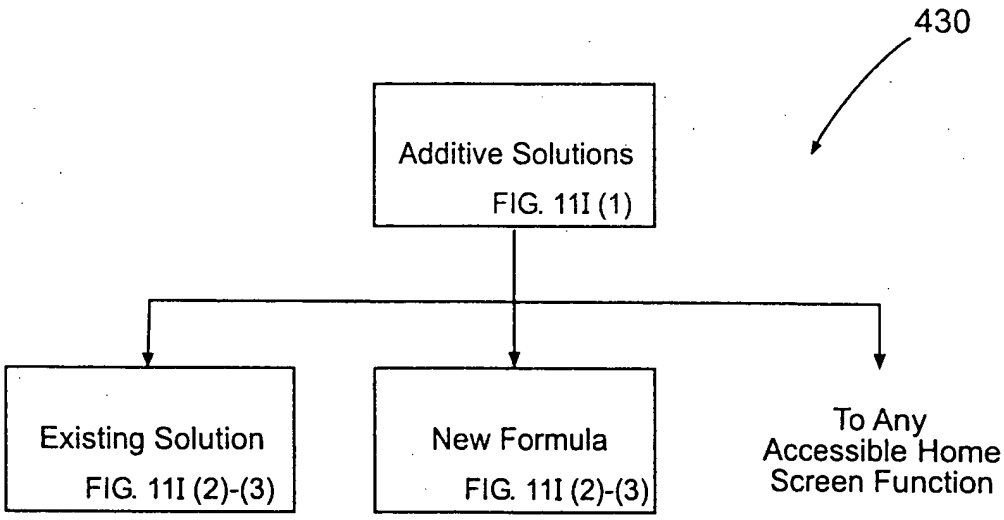
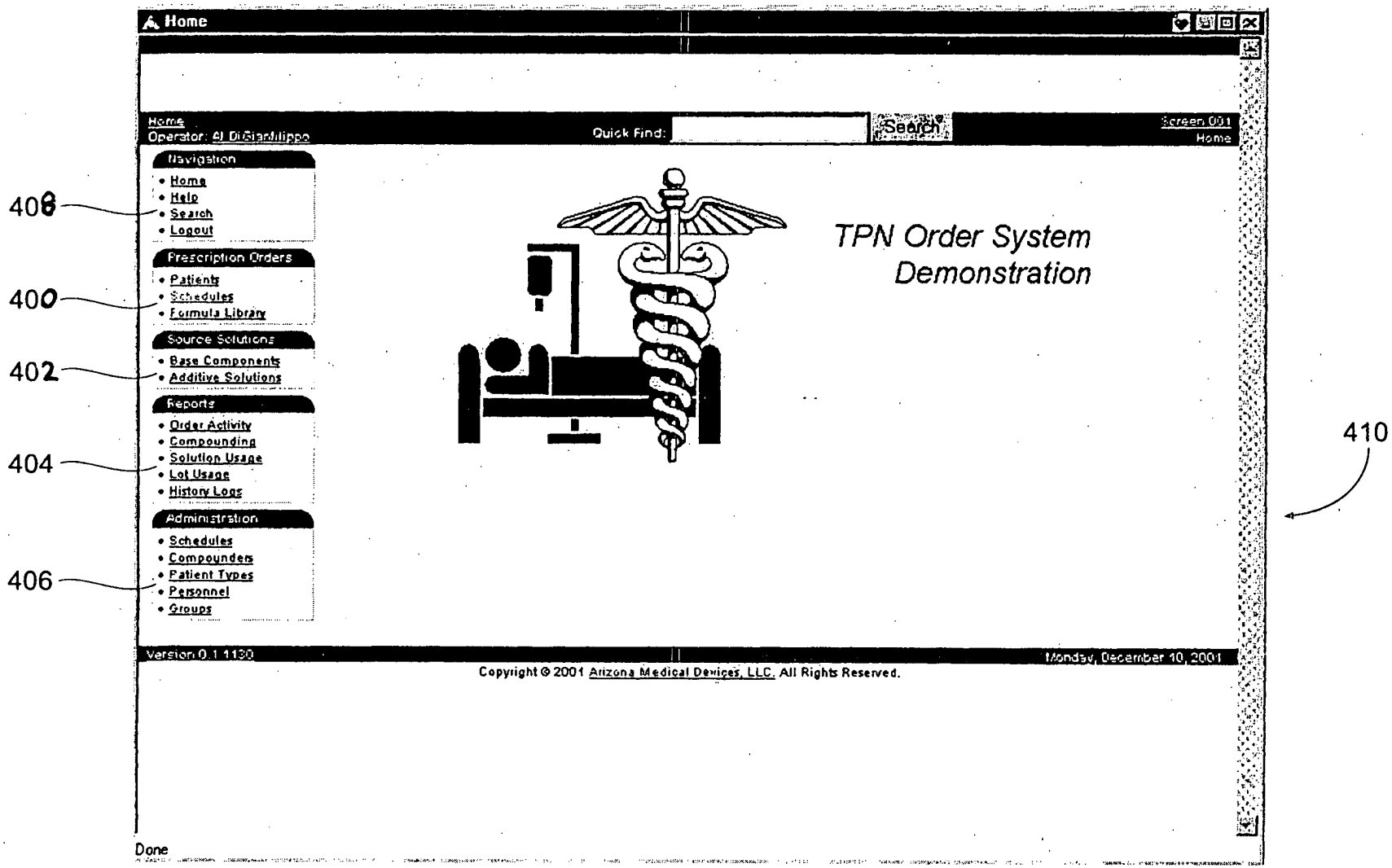

430
Additive Solutions
FIG. 11I (1)
Existing Solution
FIG. 11I (2)-(3)
New Formula
FIG. 11I (2)-(3)
To Any
Accessible Home
Screen Function

Fig. 10E


Home
Home
Operator: Al DiSandilippo
Quick Find:
Search
Screen 001
Home
Navigation
Home
Help
Search
Logout
Prescription Orders
Patients
Schedules
Formula Library
Source Solutions
Base Components
Additive Solutions
Reports
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
Administration
Schedules
Compounders
Patient Types
Personnel
Groups
TPN Order System
Demonstration
Version 0.1 1130
Monday, December 10, 2001
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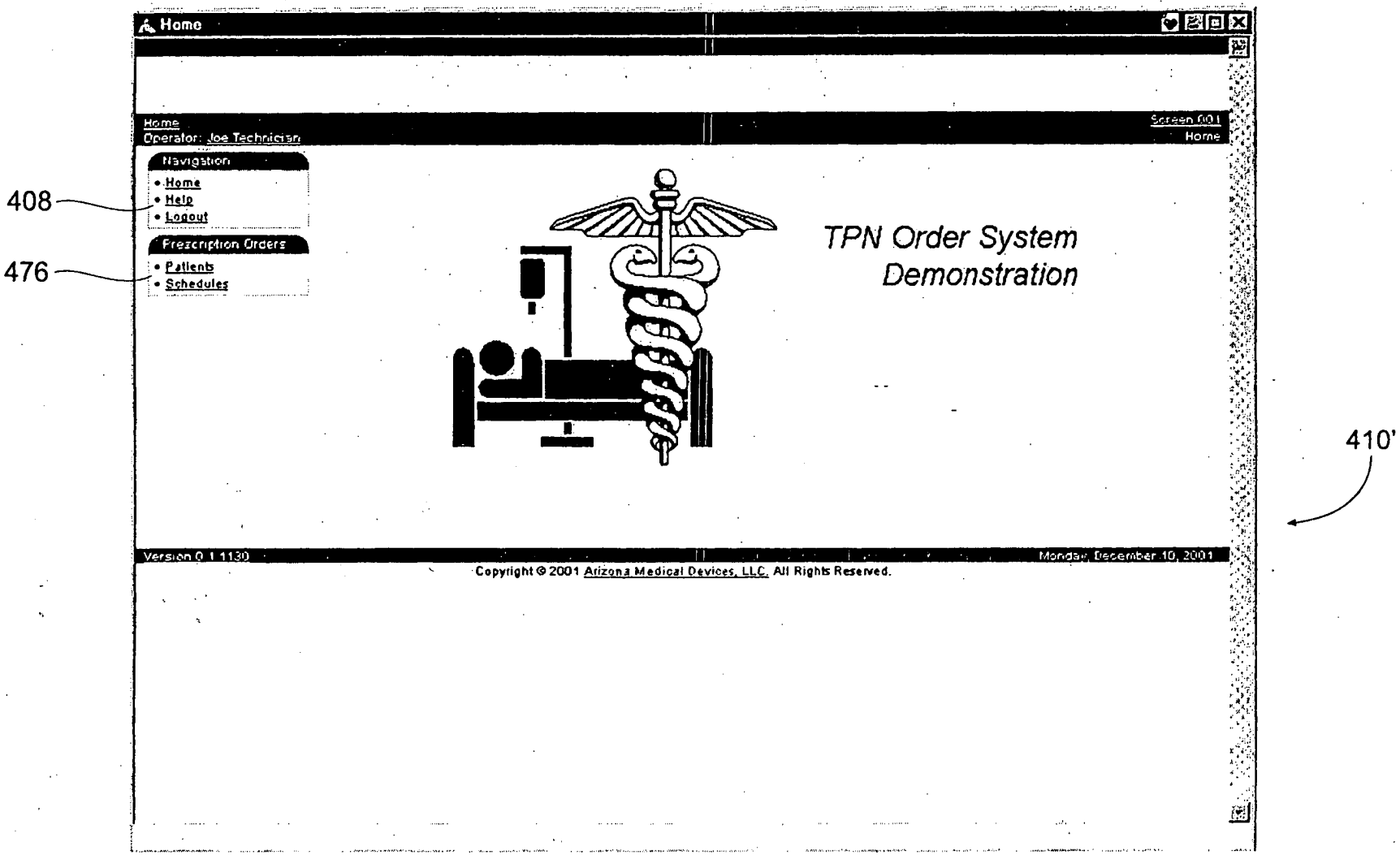
Done
408
400
402
404
406
410

Fig. 11A


Home
Home
Operator: Joe Technician
Screen 001
Home
Navigation
• Home
• Help
• Logout
Prescription Orders
• Patients
• Schedules
TPN Order System
Demonstration
Version 0.1.1130
Monday, December 10, 2001
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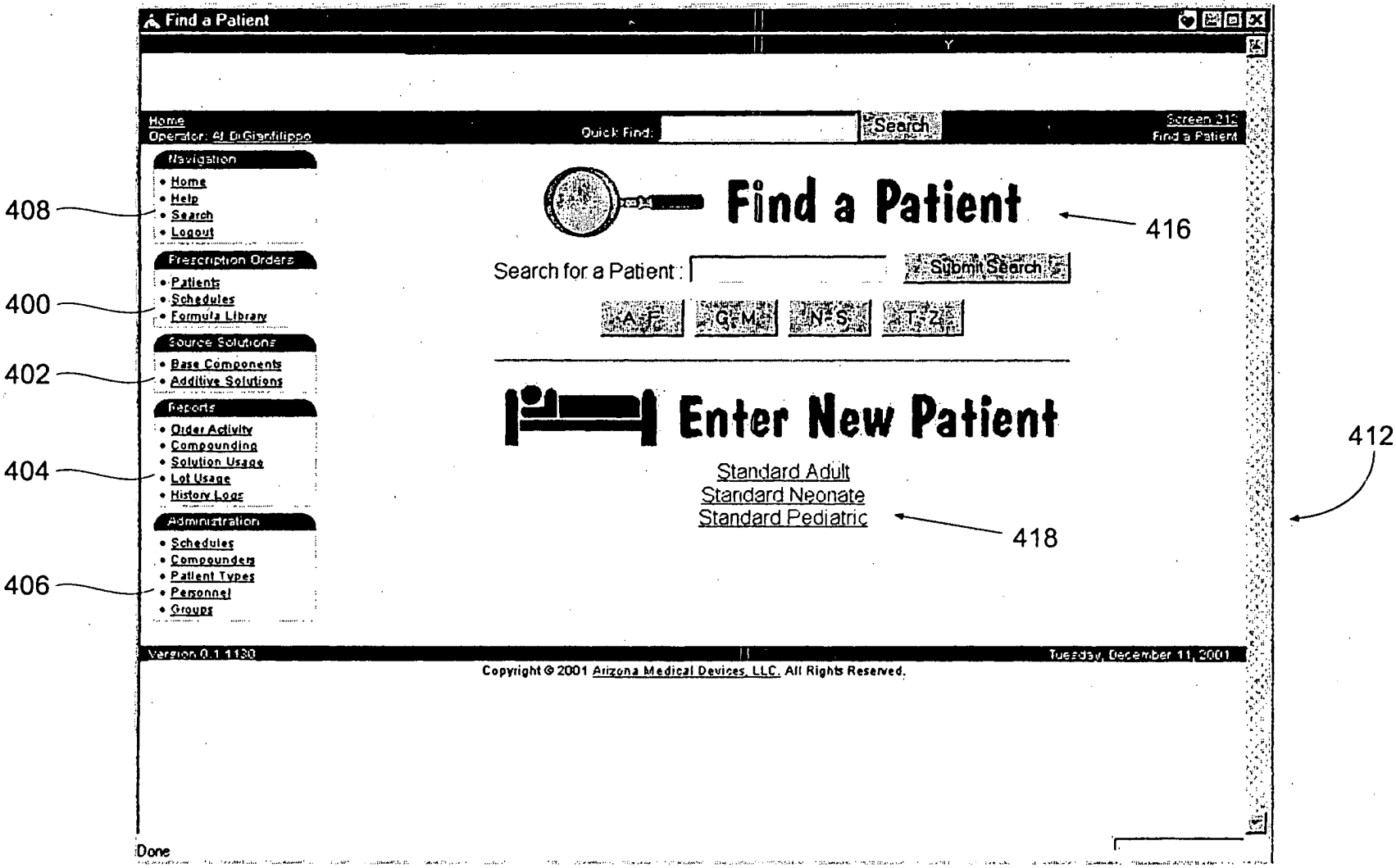
408
476
410'

Fig. 11B


Find a Patient
Home
Operator: Al DiGianfilippo
Quick Find:
Search
Screen 212
Find a Patient
Navigation
Home
Help
Search
Logout
Prescription Orders
Patients
Schedules
Formula Library
Source Solutions
Base Components
Additive Solutions
Reports
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
Administration
Schedules
Compounders
Patient Types
Personnel
Groups
Find a Patient
Search for a Patient :
Submit Search
A-F
G-M
N-S
T-Z
Enter New Patient
Standard Adult
Standard Neonate
Standard Pediatric
Version 0.1.1130
Tuesday, December 11, 2001
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Done
408
400
402
404
406
416
418
412

Fig. 11C

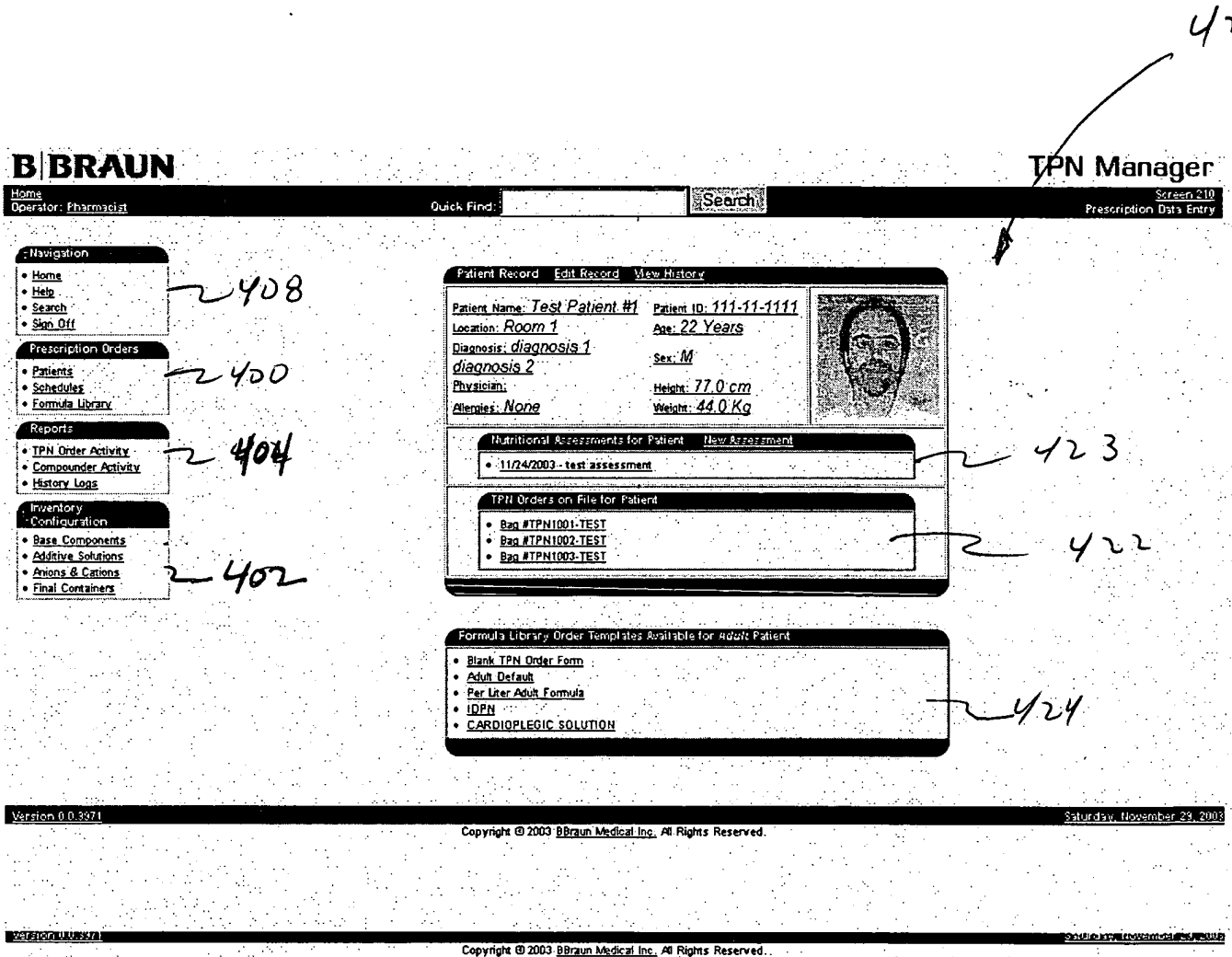

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Fig. 11D.

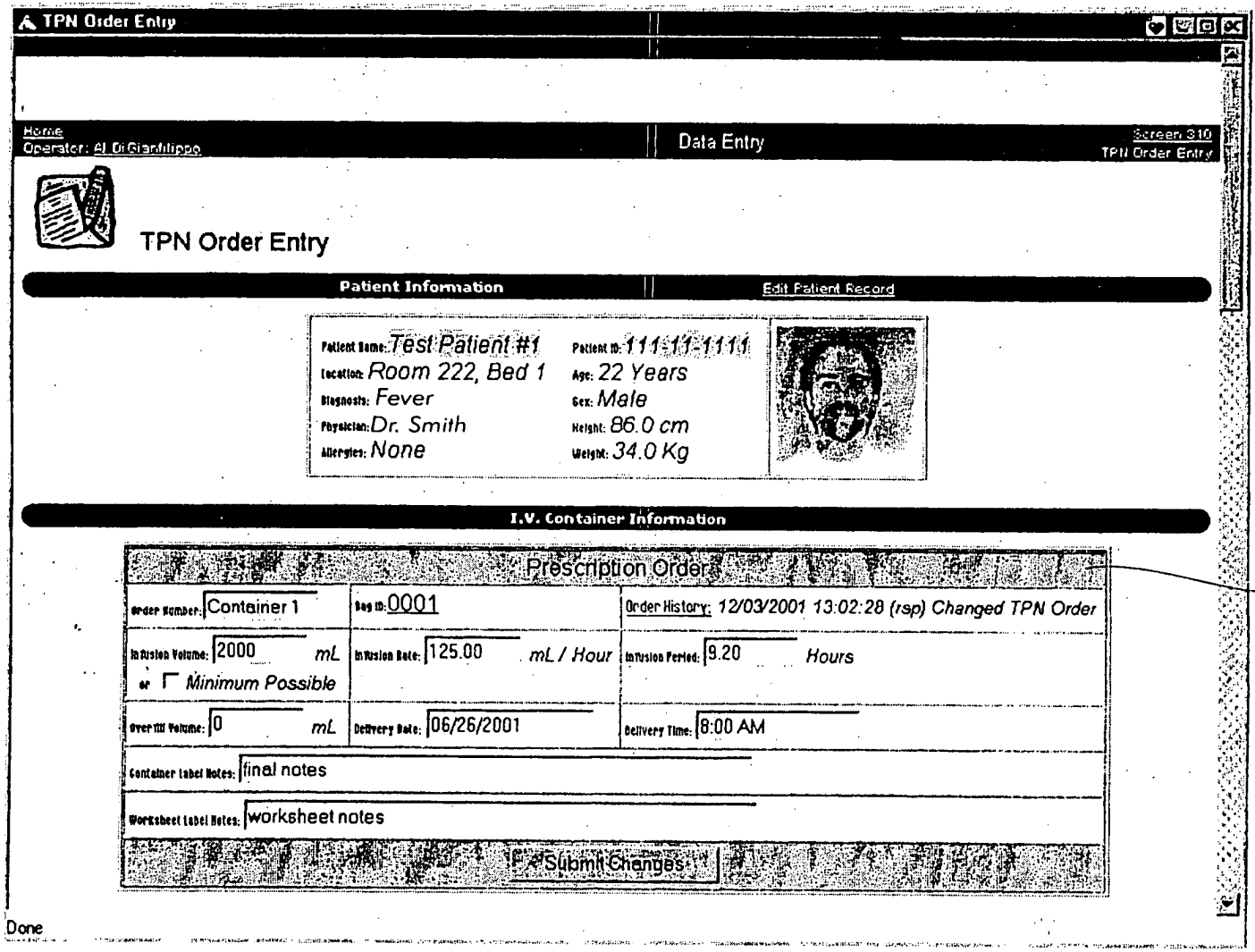

TPN Order Entry
Home
Operator: Al DiGiandilippo
Data Entry
Screen 310
TPN Order Entry
TPN Order Entry
Patient Information
Edit Patient Record
Patient Name: Test Patient #1
Location: Room 222, Bed 1
Diagnosis: Fever
Physician: Dr. Smith
Allergies: None
Patient ID: 111-11-1111
Age: 22 Years
Sex: Male
Height: 86.0 cm
Weight: 34.0 Kg
I.V. Container Information
Prescription Order
Order Number: Container 1
Bag ID: 0001
Order History: 12/03/2001 13:02:28 (rsp) Changed TPN Order
Infusion Volume: 2000 mL
or Minimum Possible
Infusion Rate: 125.00 mL / Hour
Infusion Period: 9.20 Hours
Overfill Volume: 0 mL
Delivery Date: 06/26/2001
Delivery Time: 8:00 AM
Container Label Notes: final notes
Worksheet Label Notes: worksheet notes
Submit Changes
Done
436
438

Fig. 11E (1)

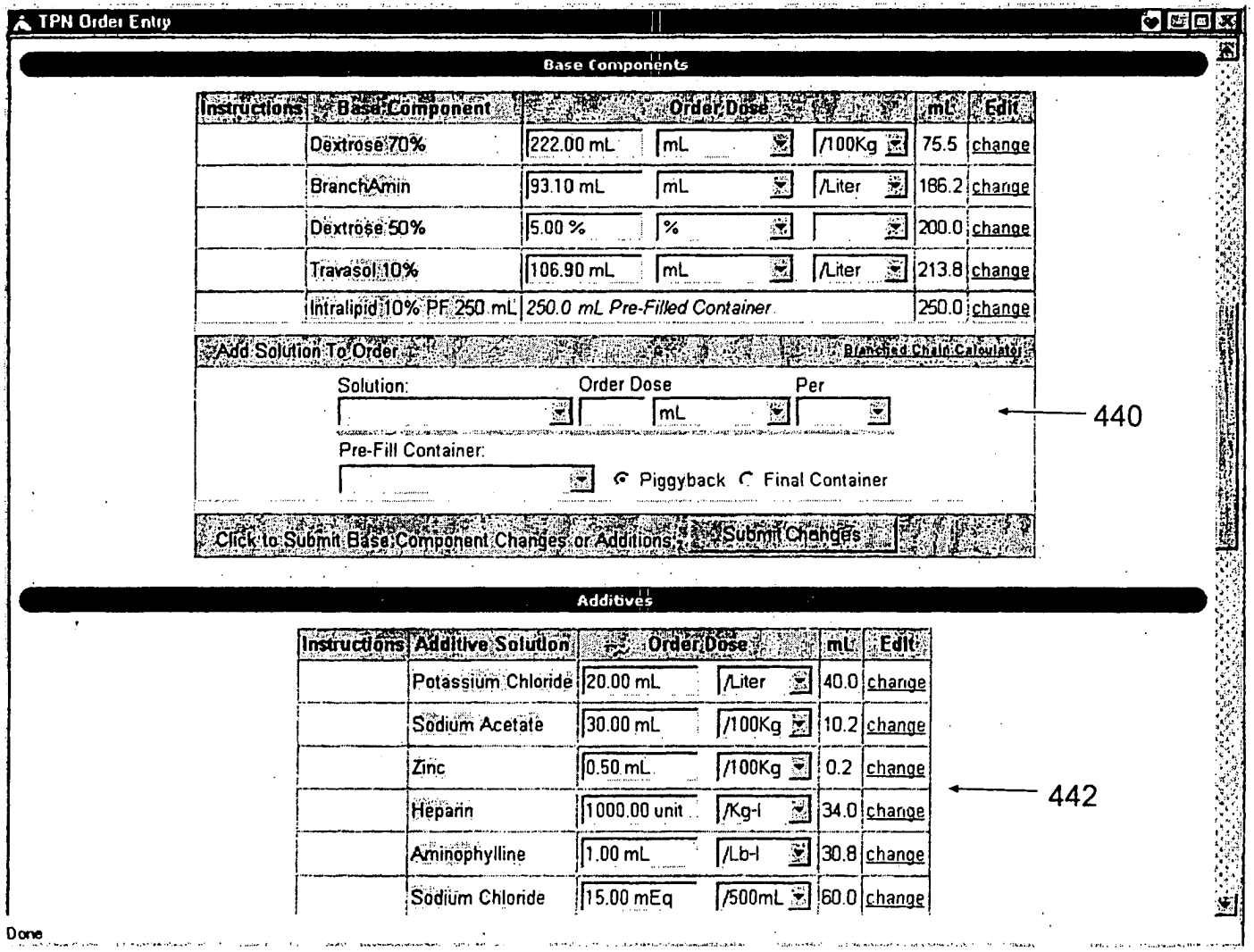

TPN Order Entry
Base Components
Instructions
Base Component
Order Dose
mL
Edit
Dextrose 70%
222.00 mL
mL
/100Kg
75.5
change
BranchAmin
93.10 mL
mL
/Liter
186.2
change
Dextrose 50%
5.00 %
%
200.0
change
Travasol 10%
106.90 mL
mL
/Liter
213.8
change
Intralipid 10% PF 250 mL
250.0 mL Pre-Filled Container
250.0
change
Add Solution To Order
Branched Chain Calculator
Solution:
Order Dose
Per
mL
Pre-Fill Container:
Piggyback
Final Container
Click to Submit Base Component Changes or Additions:
Submit Changes
Additives
Instructions
Additive Solution
Order Dose
mL
Edit
Potassium Chloride
20.00 mL
/Liter
40.0
change
Sodium Acetate
30.00 mL
/100Kg
10.2
change
Zinc
0.50 mL
/100Kg
0.2
change
Heparin
1000.00 unit
/Kg-I
34.0
change
Aminophylline
1.00 mL
/Lb-I
30.8
change
Sodium Chloride
15.00 mEq
/500mL
60.0
change
Done
436
440
442

Fig. 11E (2)

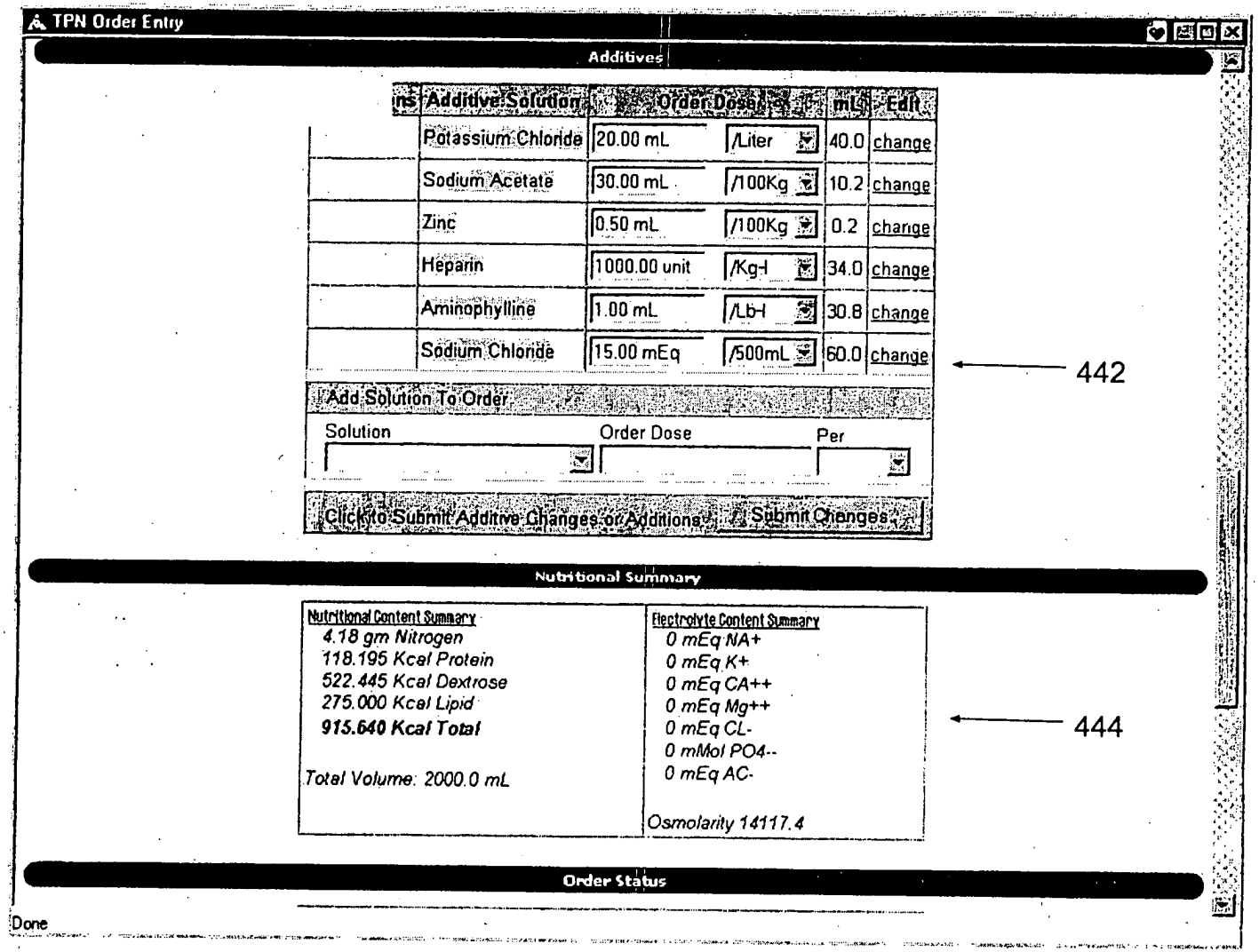
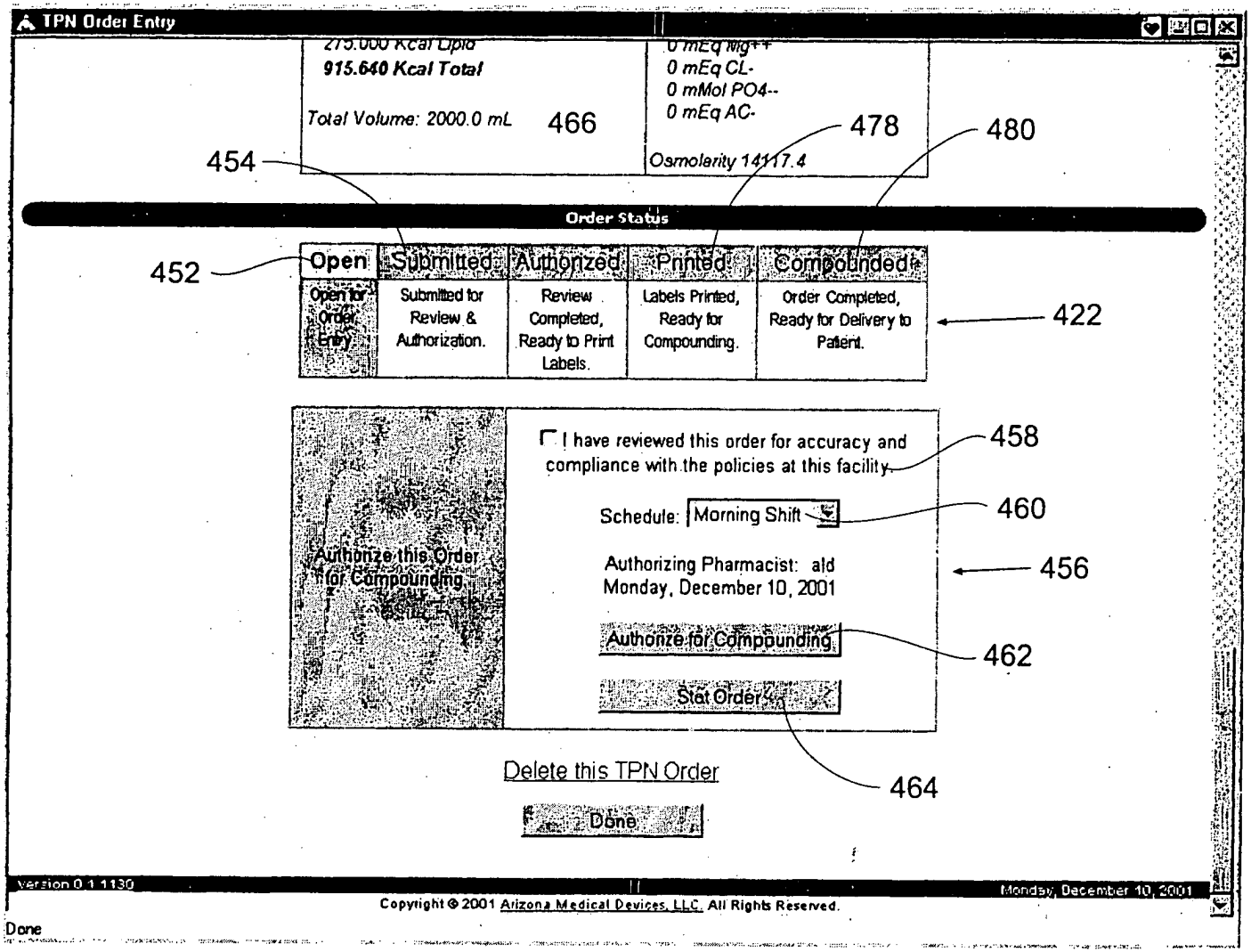

TPN Order Entry
Additives
Ins
Additive/Solution
Order Dose
mL
Edit
Potassium Chloride
20.00 mL
/Liter
40.0
change
Sodium Acetate
30.00 mL
/100Kg
10.2
change
Zinc
0.50 mL
/100Kg
0.2
change
Heparin
1000.00 unit
/Kg-I
34.0
change
Aminophylline
1.00 mL
/Lb-I
30.8
change
Sodium Chloride
15.00 mEq
/500mL
60.0
change
442
436
Add Solution To Order
Solution
Order Dose
Per
Click to Submit Additive Changes or Additions
Submit Changes
Nutritional Summary
Nutritional Content Summary
4.18 gm Nitrogen
118.195 Kcal Protein
522.445 Kcal Dextrose
275.000 Kcal Lipid
915.640 Kcal Total
Total Volume: 2000.0 mL
Electrolyte Content Summary
0 mEq NA+
0 mEq K+
0 mEq CA++
0 mEq Mg++
0 mEq CL-
0 mMol PO4--
0 mEq AC-
Osmolarity 14117.4
444
Order Status
Done

Fig. 11E (3)


TPN Order Entry
915.640 Kcal Total
Total Volume: 2000.0 mL
466
0 mEq CL-
0 mMol PO4--
0 mEq AC-
Osmolarity 14117.4
454
478
480
Order Status
452
Open
Submitted
Authorized
Printed
Compounded
Open for Order Entry
Submitted for Review & Authorization.
Review Completed, Ready to Print Labels.
Labels Printed, Ready for Compounding.
Order Completed, Ready for Delivery to Patient.
422
436
I have reviewed this order for accuracy and compliance with the policies at this facility.
458
Schedule: Morning Shift
460
Authorize this Order for Compounding
Authorizing Pharmacist: ald
Monday, December 10, 2001
456
Authorize for Compounding
462
Stat Order
464
Delete this TPN Order
Done
Version 0.1.1130
Monday, December 10, 2001
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Done

Fig. 11E (4)

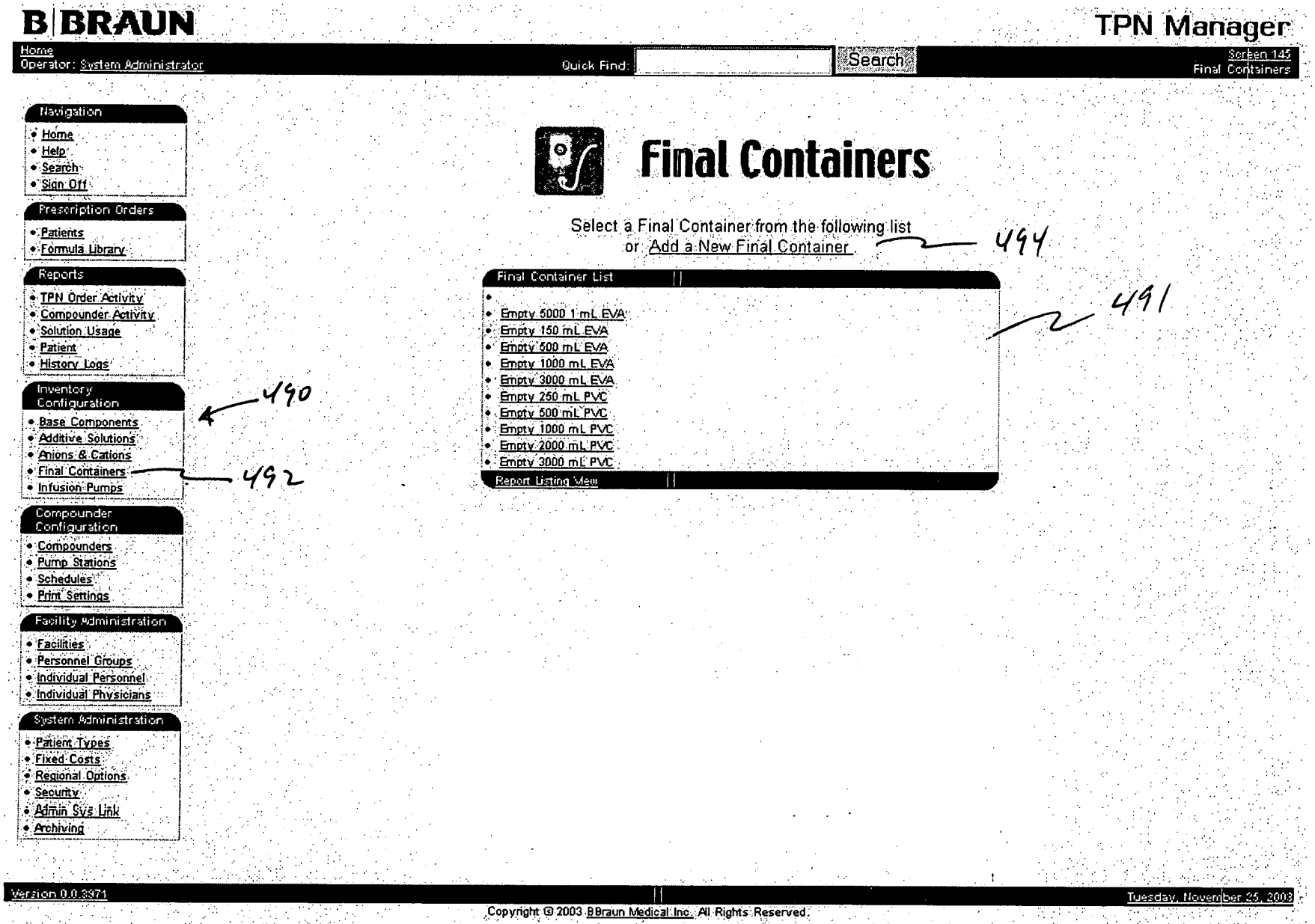
B|BRAUN
TPN Manager
Home
Operator: System Administrator
Quick Find:
Search
Screen 145
Final Containers
Navigation
Home
Help
Search
Sign Off
Prescription Orders
Patients
Formula Library
Reports
TPN Order Activity
Compounder Activity
Solution Usage
Patient
History Logs
Inventory Configuration
Base Components
Additive Solutions
Anions & Cations
Final Containers
Infusion Pumps
Compounder Configuration
Compounders
Pump Stations
Schedules
Print Settings
Facility Administration
Facilities
Personnel Groups
Individual Personnel
Individual Physicians
System Administration
Patient Types
Fixed Costs
Regional Options
Security
Admin Sys Link
Archiving
490
492
Final Containers
Select a Final Container from the following list
or Add a New Final Container
494
Final Container List
Empty 5000 mL EVA
Empty 150 mL EVA
Empty 500 mL EVA
Empty 1000 mL EVA
Empty 3000 mL EVA
Empty 250 mL PVC
Empty 500 mL PVC
Empty 1000 mL PVC
Empty 2000 mL PVC
Empty 3000 mL PVC
Report Listing View
491
Version 0.0.3371
Tuesday, November 25, 2003
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FIG 11 E(5)

493

B|BRAUN

TPN Manager

Home
Operator: System Administrator

Data Entry

Screen 146
Final Container Inventory

Final Container Inventory

History: Created 11/24/2003

Record Status: (•) Enabled ( ) Disabled

Container Description: Empty 3000 mL EVA

Rated Size: 3000 mL

Maximum Capacity: 3300 mL

Nominal Empty Weight: 43 gm

Max Under Nominal Weight: 10 gm

Max Over Nominal Weight: 10 gm

Unit Cost: $ 0.00

Update — Save changes to this Record.

Delete — Delete this Record.

Cancel — Exit without saving changes.

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Version 0.0.3971 || Tuesday, November 25, 2003

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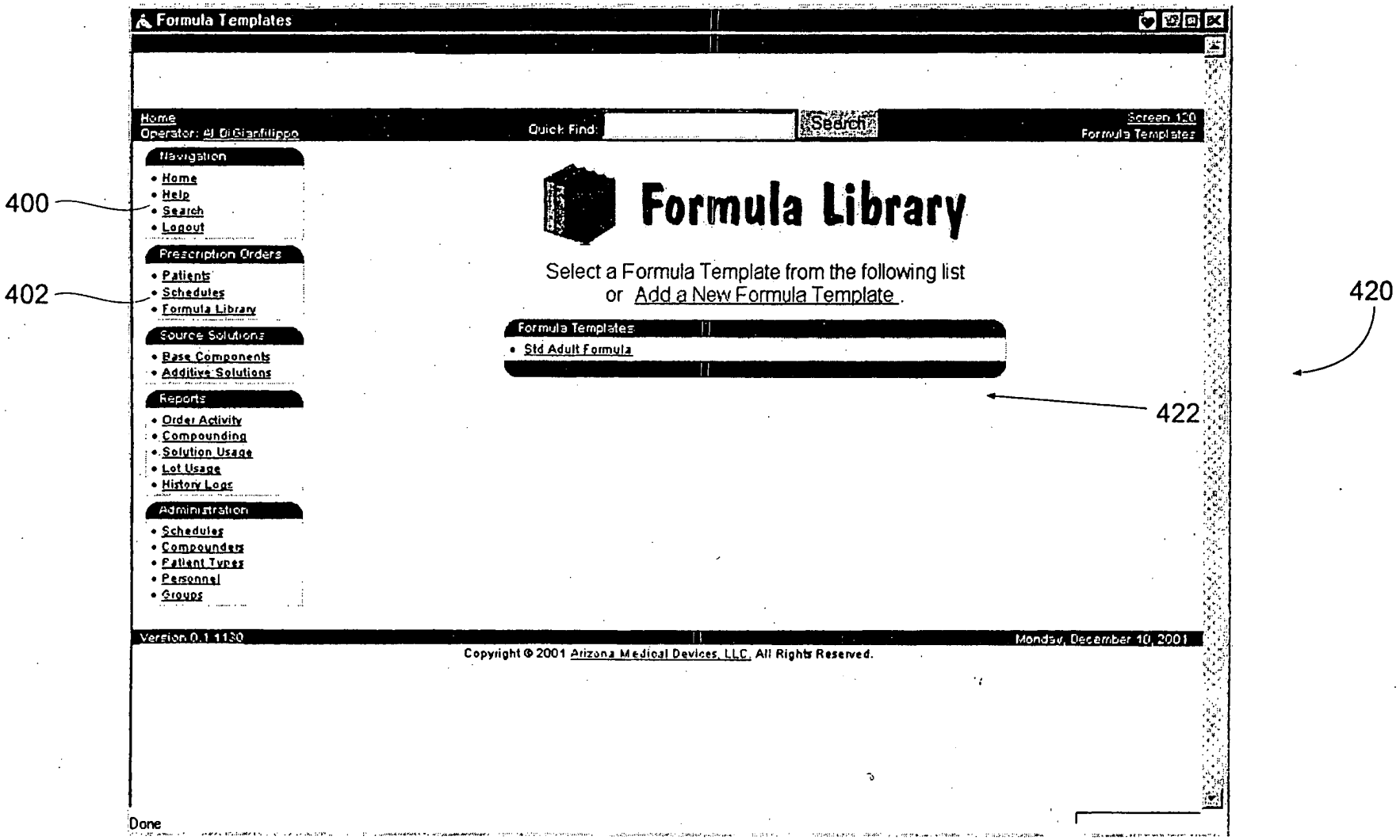
FIG 116 (6)


Formula Templates
Home
Operator: Al DiGianfilippo
Quick Find:
Search
Screen 120
Formula Templates
Navigation
Home
Help
Search
Logout
Prescription Orders
Patients
Schedules
Formula Library
Source Solutions
Base Components
Additive Solutions
Reports
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
Administration
Schedules
Compounders
Patient Types
Personnel
Groups
Formula Library
Select a Formula Template from the following list
or Add a New Formula Template .
Formula Templates
Std Adult Formula
Version 0.1.1130
Monday, December 10, 2001
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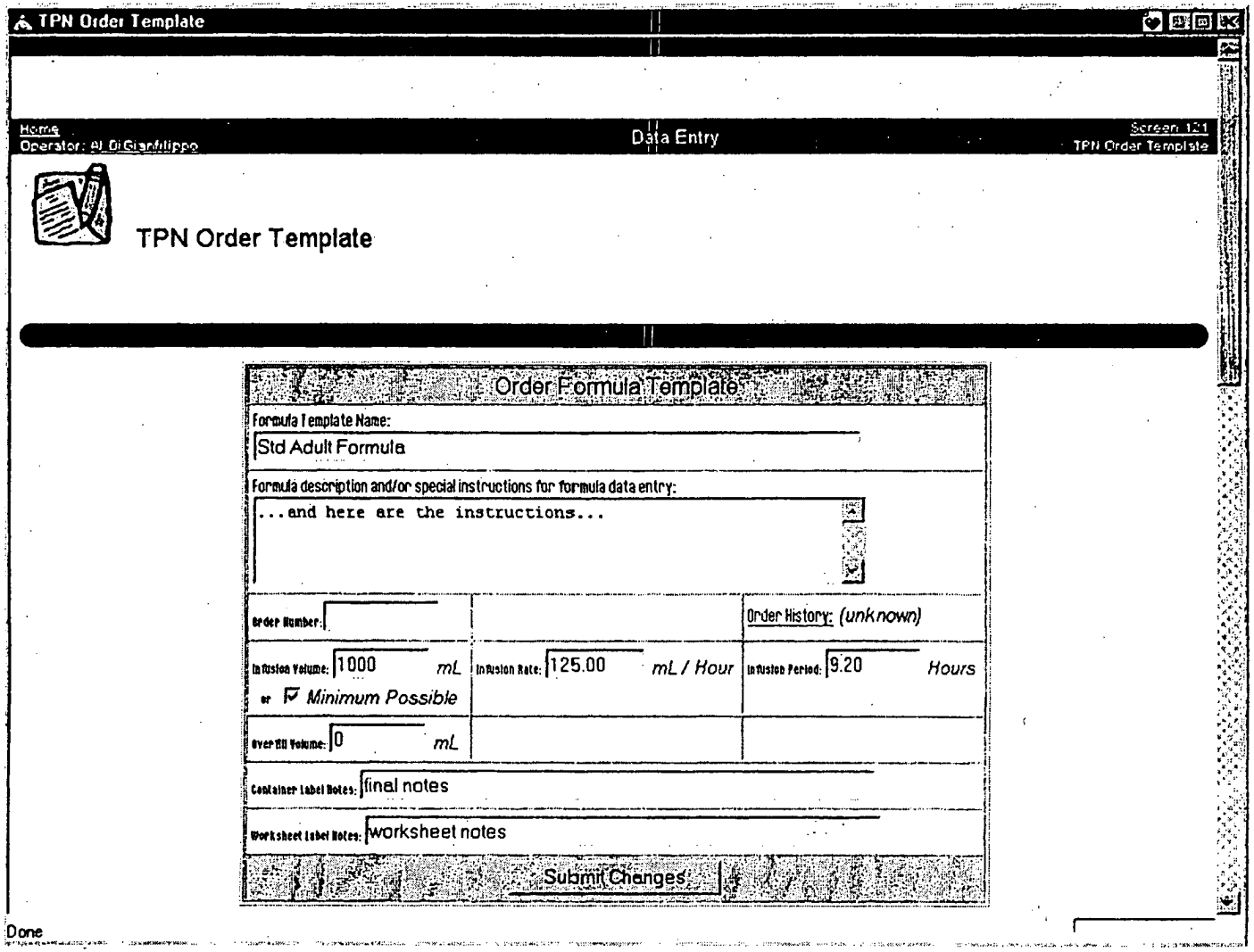
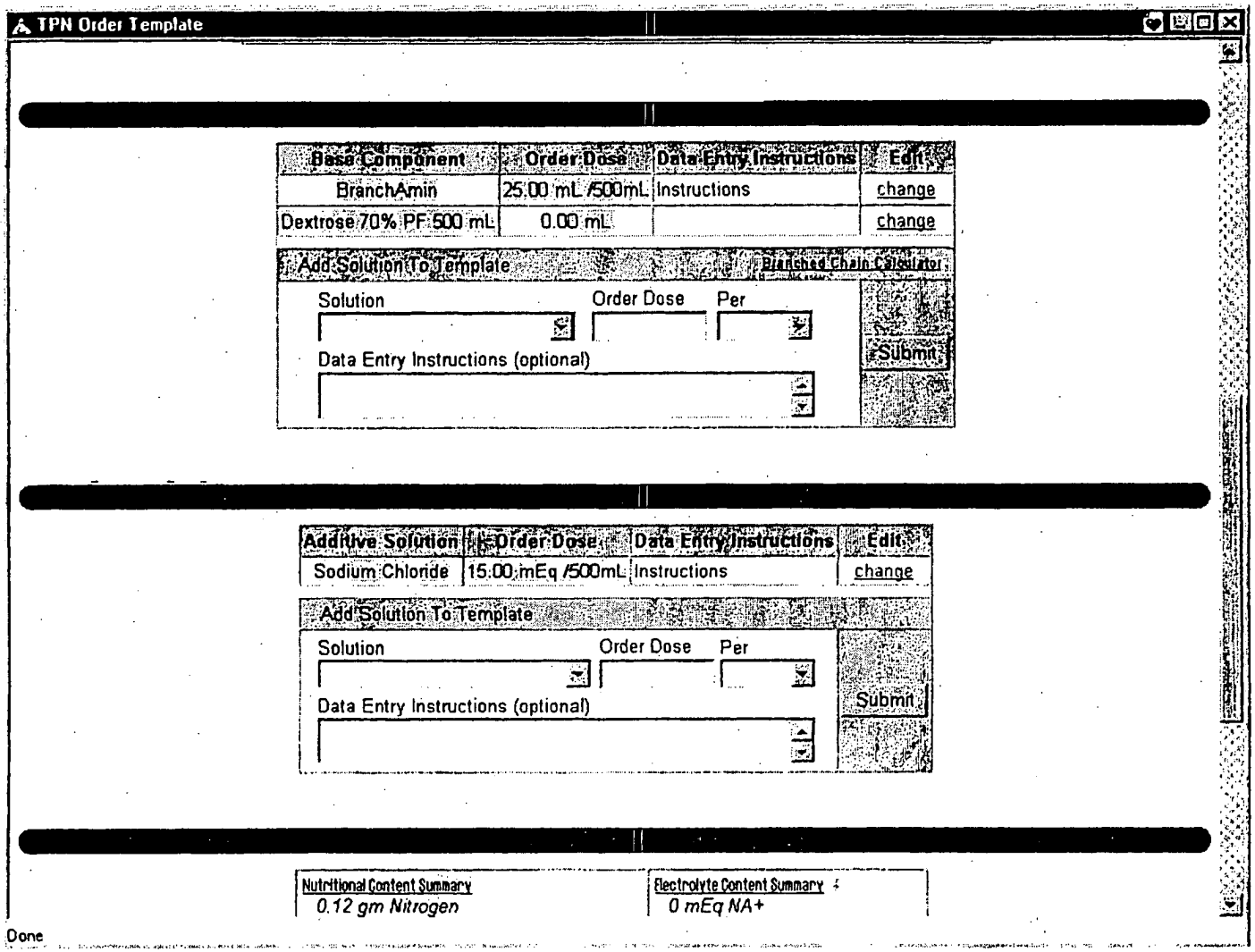
Done
400
402
420
422

Fig. 11F (1)


TPN Order Template
Home
Operator: Al DiGiandlippo
Data Entry
Screen 121
TPN Order Template
TPN Order Template
Order Formula Template
Formula Template Name:
Std Adult Formula
Formula description and/or special instructions for formula data entry:
...and here are the instructions...
Order Number:
Order History: (unknown)
Infusion Volume: 1000 mL
or Minimum Possible
Infusion Rate: 125.00 mL / Hour
Infusion Period: 9.20 Hours
Overfill Volume: 0 mL
Container Label Notes: final notes
Worksheet Label Notes: worksheet notes
Submit Changes
Done

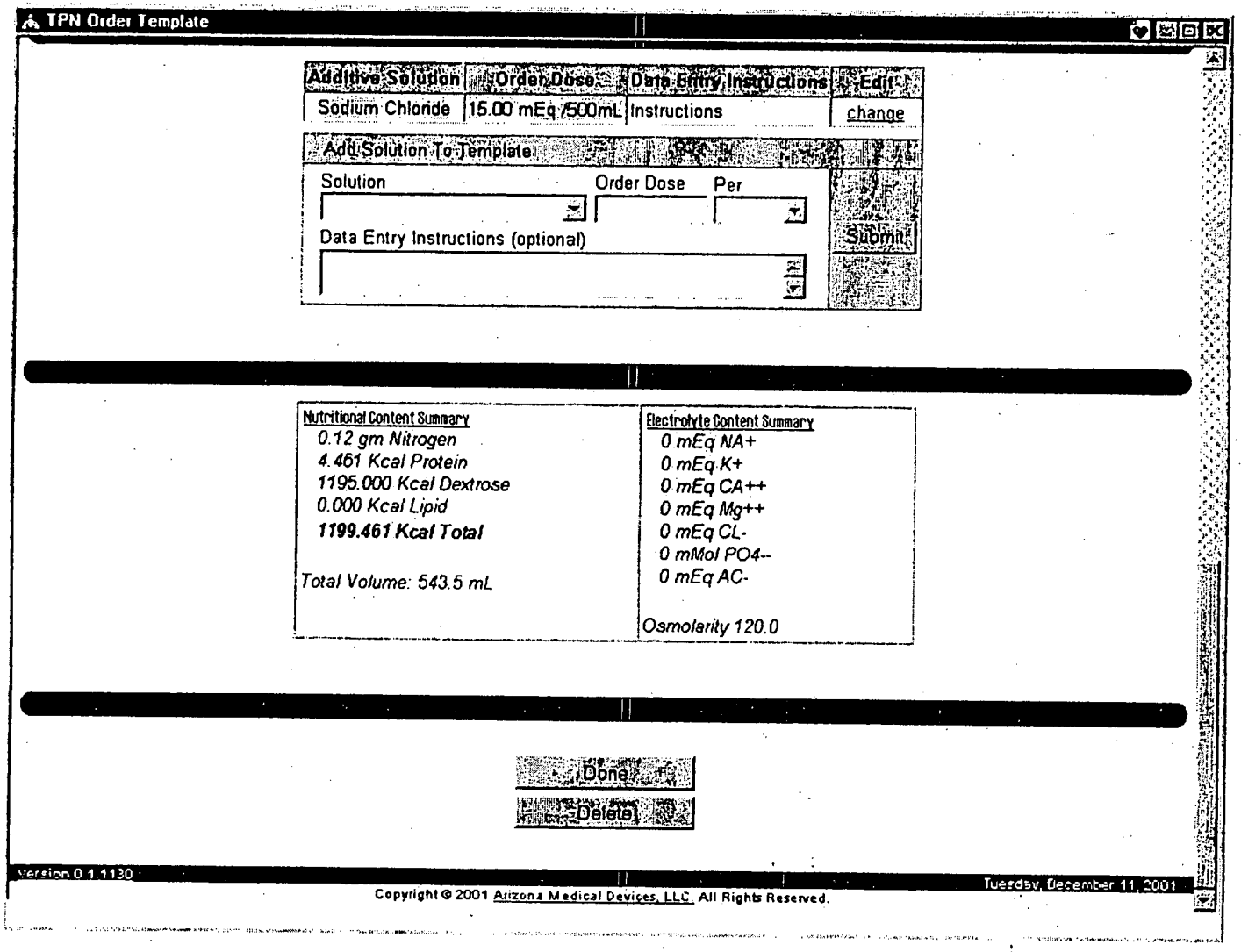
434

Fig. 11F (2)


TPN Order Template
Base Component
Order Dose
Data Entry Instructions
Edit
BranchAmin
25.00 mL /500mL
Instructions
change
Dextrose 70% PF 500 mL
0.00 mL
change
Add Solution To Template
Branched Chain Calculator
Solution
Order Dose
Per
Data Entry Instructions (optional)
Submit
Additive Solution
Order Dose
Data Entry Instructions
Edit
Sodium Chloride
15.00 mEq /500mL
Instructions
change
Add Solution To Template
Solution
Order Dose
Per
Data Entry Instructions (optional)
Submit
Nutritional Content Summary
0.12 gm Nitrogen
Electrolyte Content Summary
0 mEq NA+
Done

434

Fig. 11F (3)


TPN Order Template
Additive Solution
Order Dose
Data Entry Instructions
Edit
Sodium Chloride
15.00 mEq /500mL
Instructions
change
Add Solution To Template
Solution
Order Dose
Per
Data Entry Instructions (optional)
Submit
Nutritional Content Summary
0.12 gm Nitrogen
4.461 Kcal Protein
1195.000 Kcal Dextrose
0.000 Kcal Lipid
1199.461 Kcal Total
Total Volume: 543.5 mL
Electrolyte Content Summary
0 mEq NA+
0 mEq K+
0 mEq CA++
0 mEq Mg++
0 mEq CL-
0 mMol PO4--
0 mEq AC-
Osmolarity 120.0
Done
Delete
Version 0.1.1130
Tuesday, December 11, 2001
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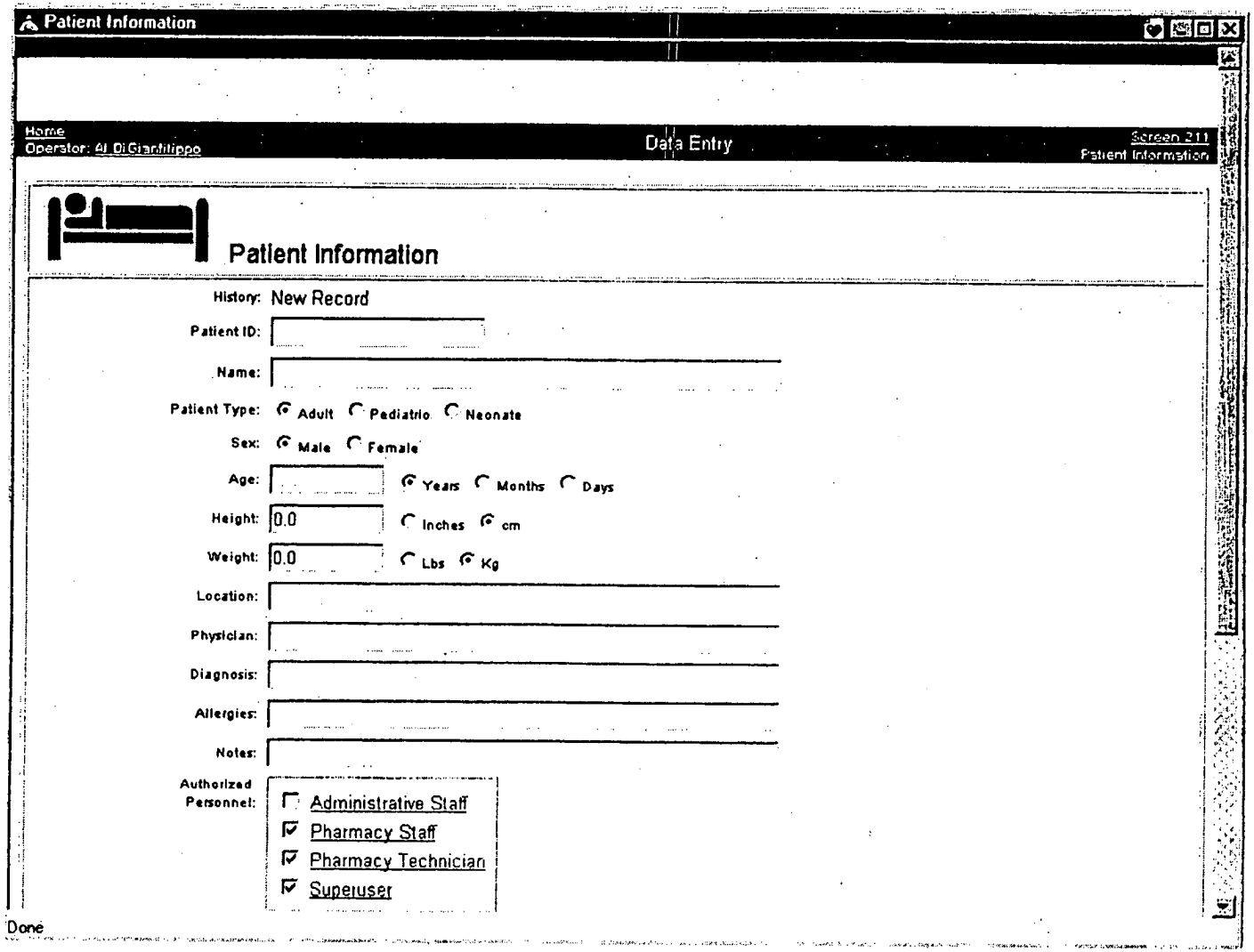
434

Fig. 11F (4)


Patient Information
Home
Operator: Al DiGianfilippo
Data Entry
Screen 211
Patient Information
Patient Information
History: New Record
Patient ID:
Name:
Patient Type: Adult Pediatric Neonate
Sex: Male Female
Age: Years Months Days
Height: 0.0 Inches cm
Weight: 0.0 Lbs Kg
Location:
Physician:
Diagnosis:
Allergies:
Notes:
Authorized Personnel:
Administrative Staff
Pharmacy Staff
Pharmacy Technician
Superuser
Done

448

Fig. 11G (1)

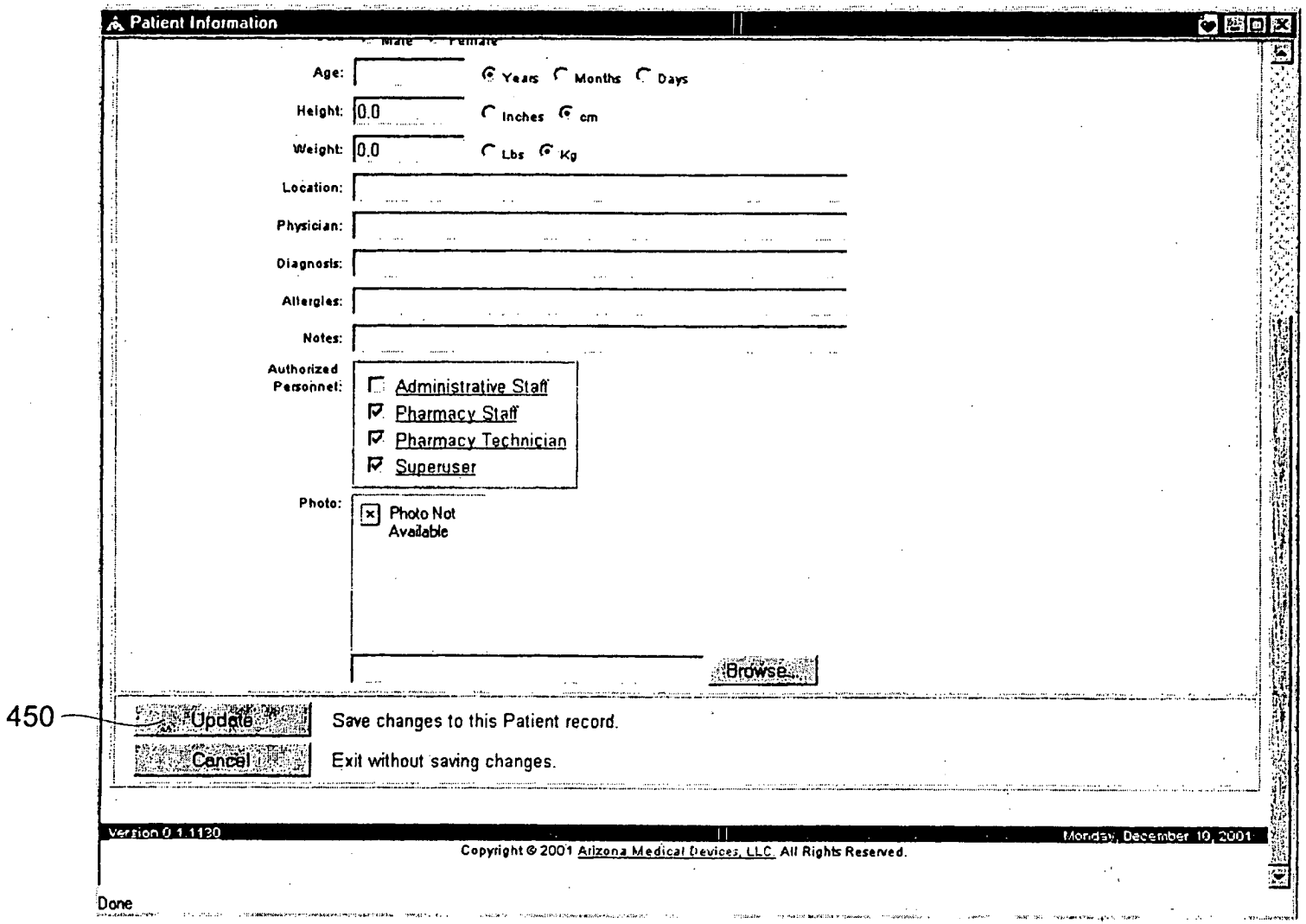
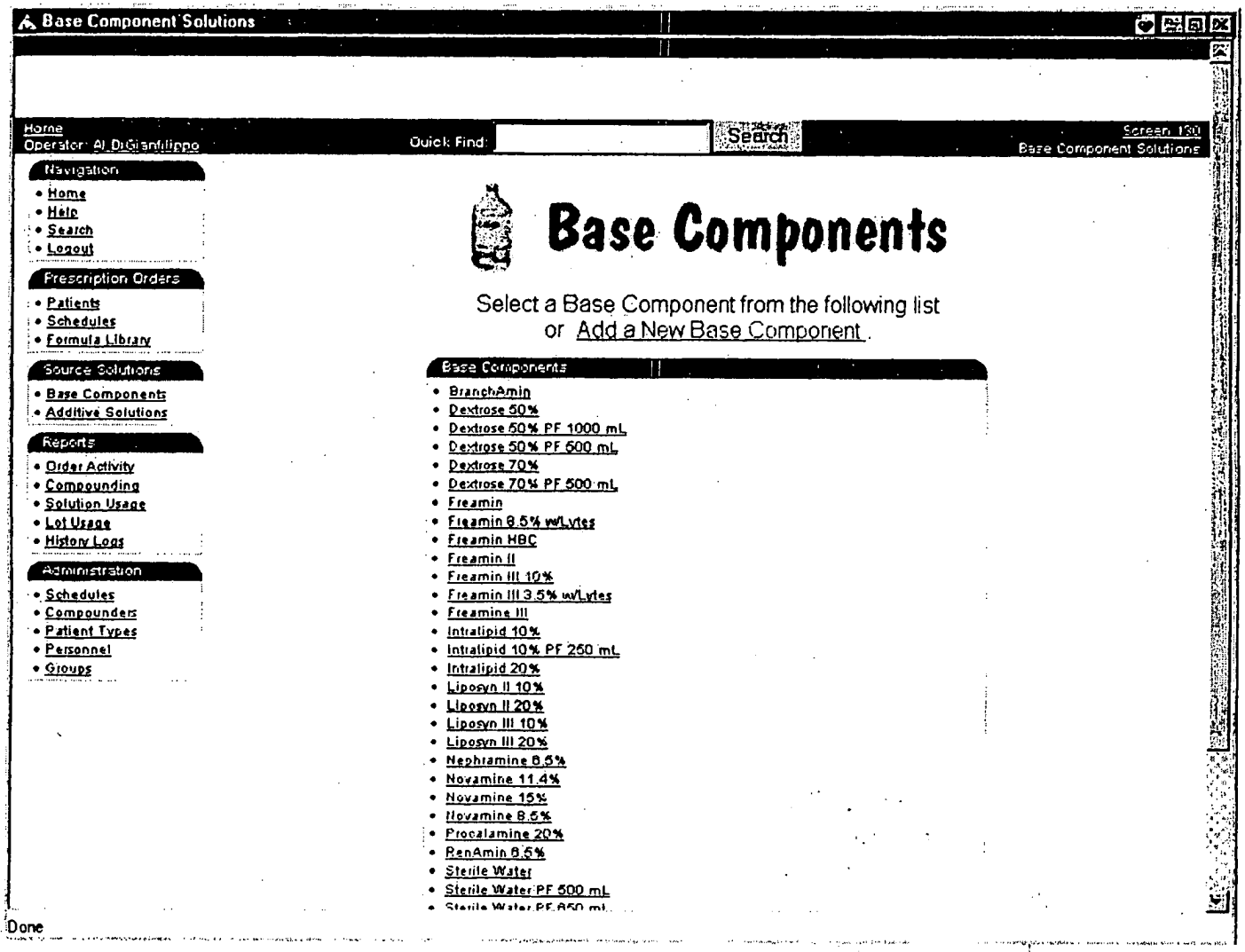
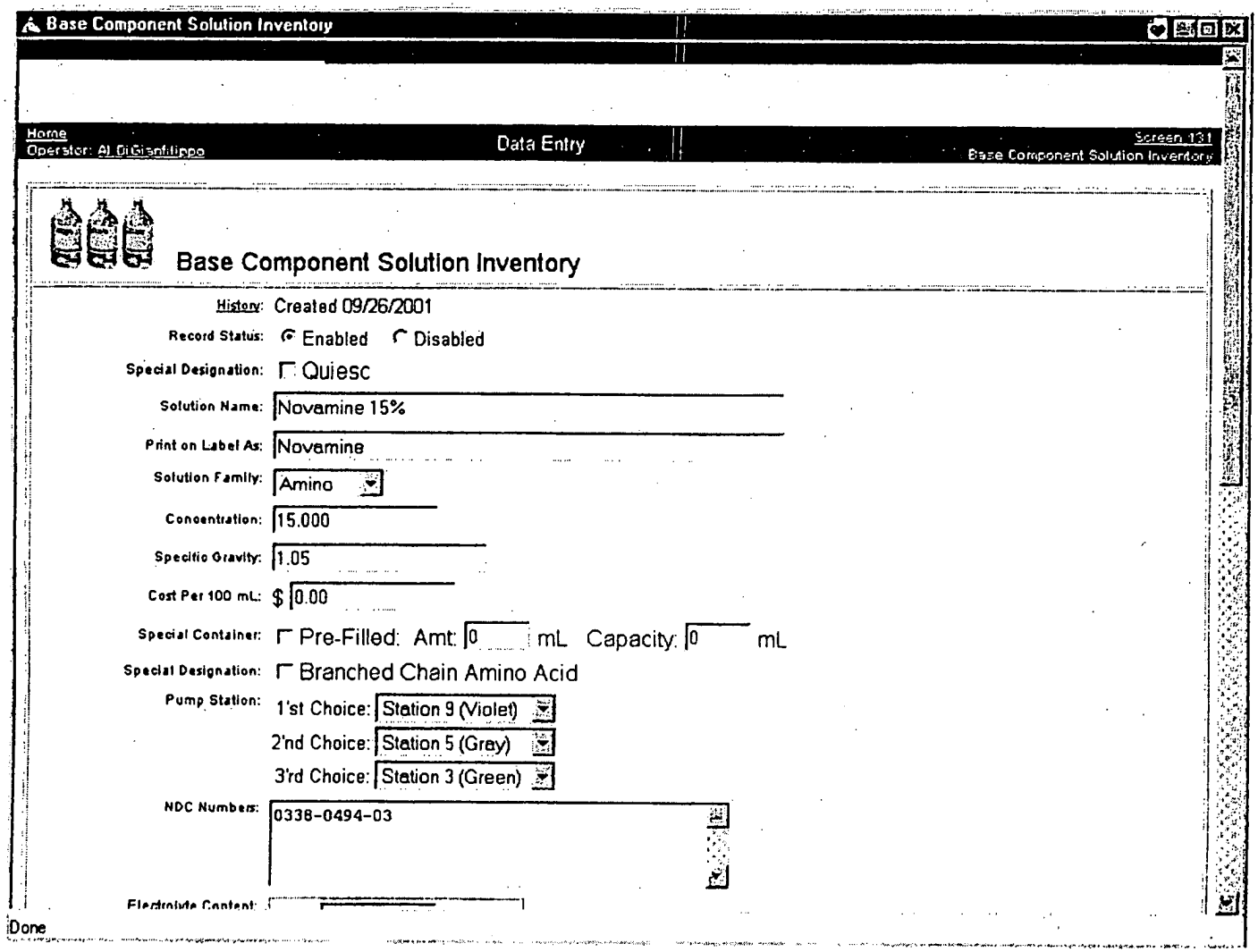

Patient Information
Male
Female
Age:
Years
Months
Days
Height:
0.0
Inches
cm
Weight:
0.0
Lbs
Kg
Location:
Physician:
Diagnosis:
Allergies:
Notes:
Authorized Personnel:
Administrative Staff
Pharmacy Staff
Pharmacy Technician
Superuser
Photo:
Photo Not Available
Browse...
Update
Save changes to this Patient record.
Cancel
Exit without saving changes.
Version 0.1.1120
Monday, December 10, 2001
Copyright © 2001 Arizona Medical Devices, LLC. All Rights Reserved.
Done
448
450

Fig. 11G (2)


Base Component Solutions
Home
Operator: Al DiGiantilippo
Quick Find:
Search
Screen 130
Base Component Solutions
Navigation
Home
Help
Search
Logout
Prescription Orders
Patients
Schedules
Formula Library
Source Solutions
Base Components
Additive Solutions
Reports
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
Administration
Schedules
Compounders
Patient Types
Personnel
Groups
Base Components
Select a Base Component from the following list
or Add a New Base Component .
Base Components
BranchAmin
Dextrose 50%
Dextrose 50% PF 1000 mL
Dextrose 50% PF 500 mL
Dextrose 70%
Dextrose 70% PF 500 mL
Freamin
Freamin 8.5% w/Lytes
Freamin HBC
Freamin II
Freamin III 10%
Freamin III 3.5% w/Lytes
Freamine III
Intralipid 10%
Intralipid 10% PF 250 mL
Intralipid 20%
Liposyn II 10%
Liposyn II 20%
Liposyn III 10%
Liposyn III 20%
Nephramine 5.5%
Novamine 11.4%
Novamine 15%
Novamine 8.5%
Procalamine 20%
RenAmin 8.5%
Sterile Water
Sterile Water PF 500 mL
Done

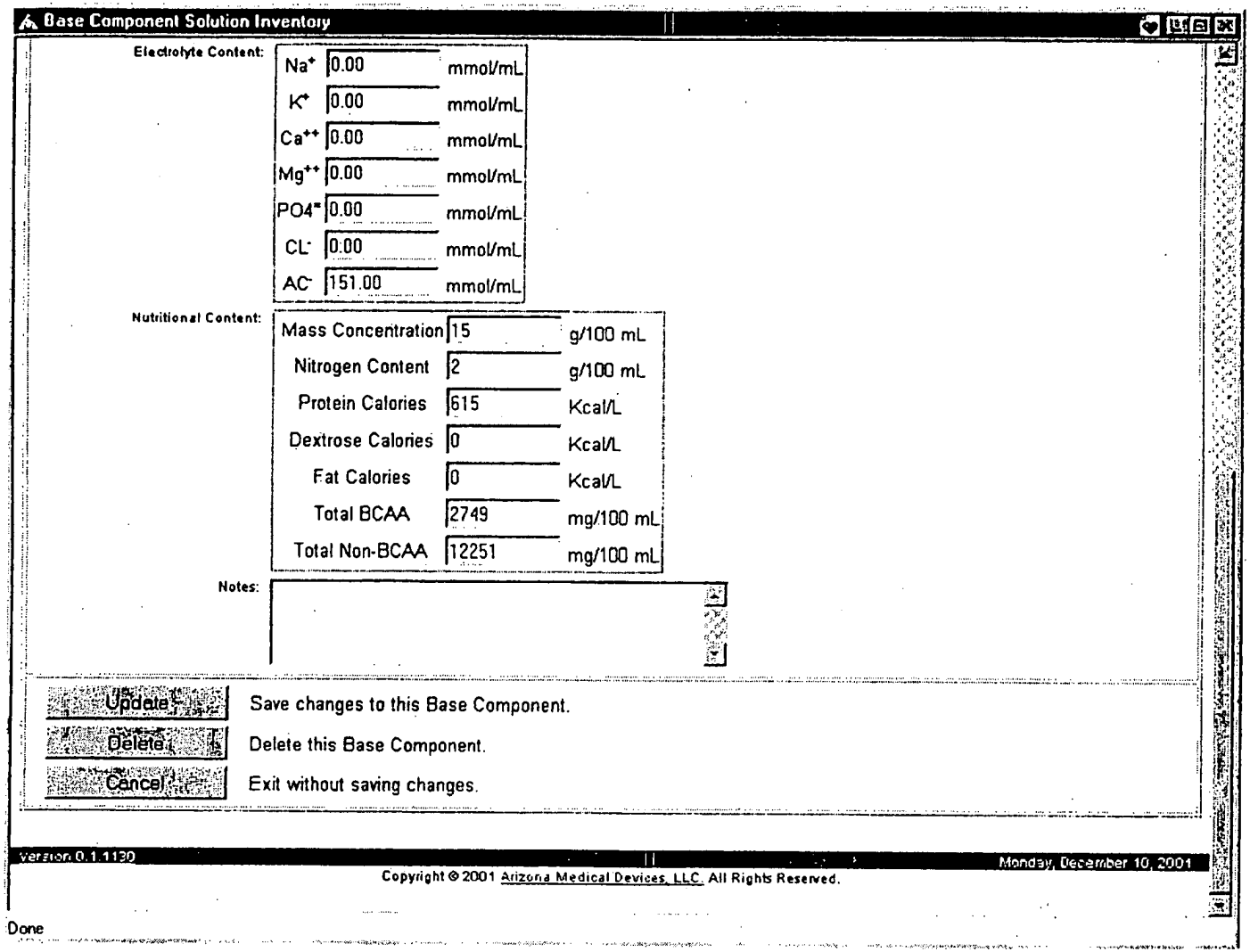
482

Fig. 11H (1)


Base Component Solution Inventory
Home
Operator: Al DiGiantilippo
Data Entry
Screen 131
Base Component Solution Inventory
Base Component Solution Inventory
History: Created 09/26/2001
Record Status: Enabled Disabled
Special Designation: Quiesc
Solution Name: Novamine 15%
Print on Label As: Novamine
Solution Family: Amino
Concentration: 15.000
Specific Gravity: 1.05
Cost Per 100 mL: $ 0.00
Special Container: Pre-Filled: Amt: 0 mL Capacity: 0 mL
Special Designation: Branched Chain Amino Acid
Pump Station: 1'st Choice: Station 9 (Violet)
2'nd Choice: Station 5 (Gray)
3'rd Choice: Station 3 (Green)
NDC Numbers: 0338-0494-03
Done

484

Fig. 11H (2)


Base Component Solution Inventory
Electrolyte Content:
Na+ 0.00 mmol/mL
K+ 0.00 mmol/mL
Ca++ 0.00 mmol/mL
Mg++ 0.00 mmol/mL
PO4= 0.00 mmol/mL
CL- 0.00 mmol/mL
AC- 151.00 mmol/mL
Nutritional Content:
Mass Concentration 15 g/100 mL
Nitrogen Content 2 g/100 mL
Protein Calories 615 Kcal/L
Dextrose Calories 0 Kcal/L
Fat Calories 0 Kcal/L
Total BCAA 2749 mg/100 mL
Total Non-BCAA 12251 mg/100 mL
Notes:
Update
Save changes to this Base Component.
Delete
Delete this Base Component.
Cancel
Exit without saving changes.
version 0.1.1130
Monday, December 10, 2001
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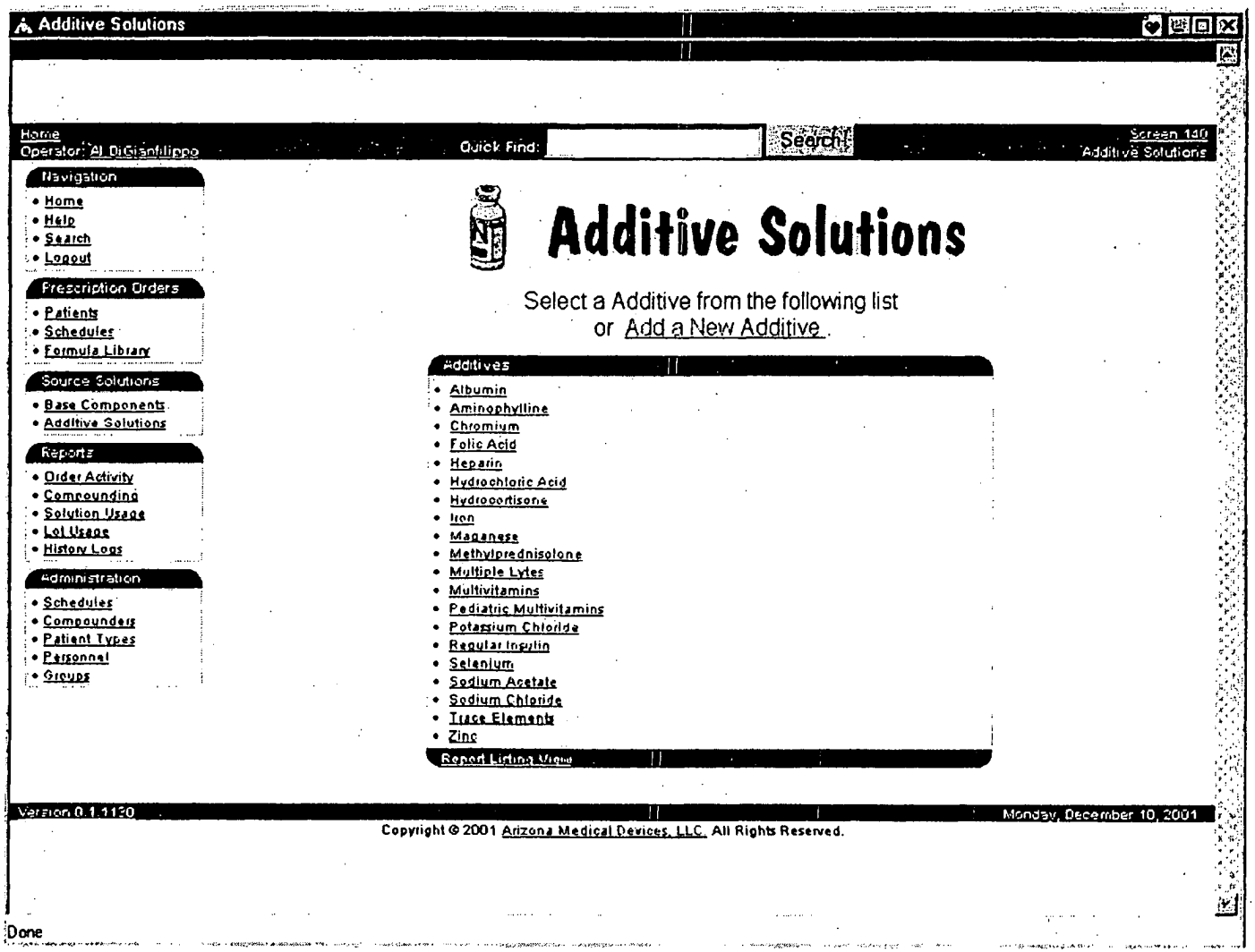
Done
484

Fig. 11H (3)


Additive Solutions
Home
Operator: Al DiGiantilippo
Quick Find:
Search
Screen 140
Additive Solutions
Navigation
Home
Help
Search
Logout
Prescription Orders
Patients
Schedules
Formula Library
Source Solutions
Base Components
Additive Solutions
Reports
Order Activity
Compounding
Solution Usage
Lot Usage
History Logs
Administration
Schedules
Compounders
Patient Types
Personnel
Groups
Additive Solutions
Select a Additive from the following list
or Add a New Additive.
Additives
Albumin
Aminophylline
Chromium
Folic Acid
Heparin
Hydrochloric Acid
Hydrocortisone
Iron
Maganese
Methylprednisolone
Multiple Lytes
Multivitamins
Pediatric Multivitamins
Potassium Chloride
Regular Insulin
Selenium
Sodium Acetate
Sodium Chloride
Trace Elements
Zinc
Report Listing View
Version 0.1.1130
Monday, December 10, 2001
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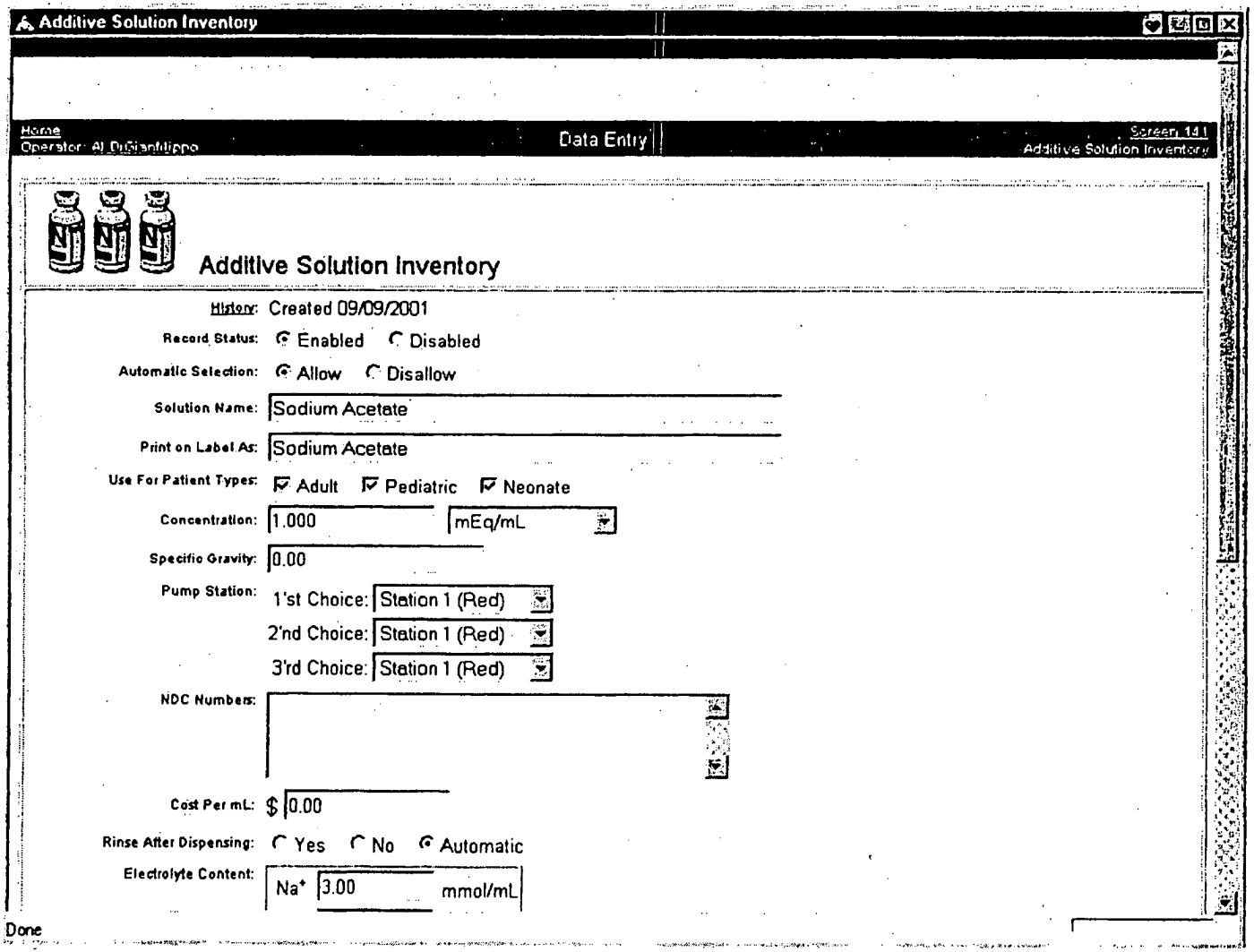
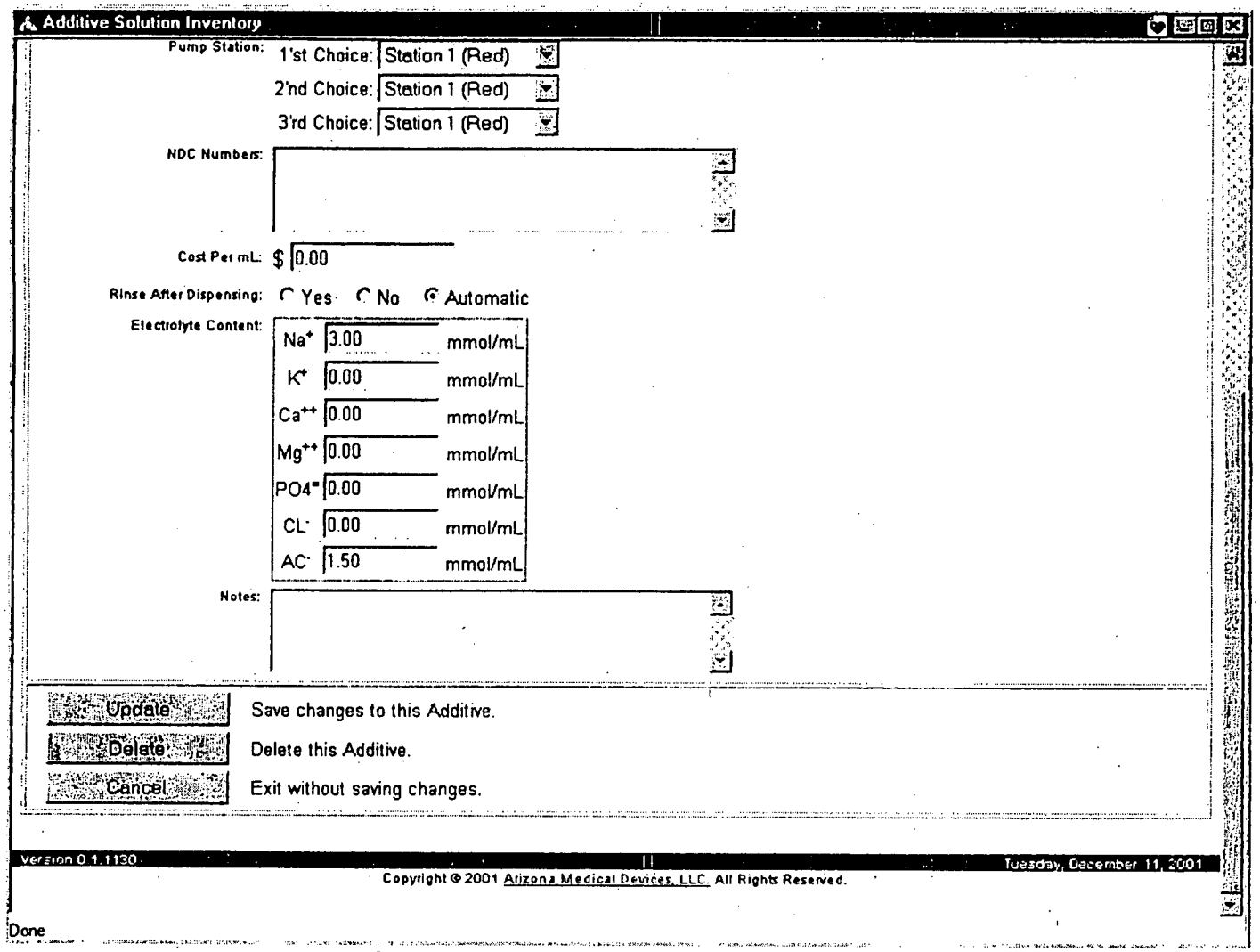
Done
486

Fig. 11-I (1)


Additive Solution Inventory
Home
Operator: AJ DiGiantilippo
Data Entry
Screen: 14.1
Additive Solution Inventory
Additive Solution Inventory
History: Created 09/09/2001
Record Status: Enabled Disabled
Automatic Selection: Allow Disallow
Solution Name: Sodium Acetate
Print on Label As: Sodium Acetate
Use For Patient Types: Adult Pediatric Neonate
Concentration: 1.000 mEq/mL
Specific Gravity: 0.00
Pump Station: 1'st Choice: Station 1 (Red)
2'nd Choice: Station 1 (Red)
3'rd Choice: Station 1 (Red)
NDC Numbers:
Cost Per mL: $ 0.00
Rinse After Dispensing: Yes No Automatic
Electrolyte Content: Na+ 3.00 mmol/mL
Done

486

Fig. 11-I (2)


Additive Solution Inventory
Pump Station:
1'st Choice: Station 1 (Red)
2'nd Choice: Station 1 (Red)
3'rd Choice: Station 1 (Red)
NDC Numbers:
Cost Per mL: $ 0.00
Rinse After Dispensing: Yes No Automatic
Electrolyte Content:
Na+ 3.00 mmol/mL
K+ 0.00 mmol/mL
Ca++ 0.00 mmol/mL
Mg++ 0.00 mmol/mL
PO4= 0.00 mmol/mL
CL- 0.00 mmol/mL
AC- 1.50 mmol/mL
Notes:
Update
Save changes to this Additive.
Delete
Delete this Additive.
Cancel
Exit without saving changes.
Version 0.1.1130
Tuesday, December 11, 2001
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Done
486

Fig. 11-I (3)

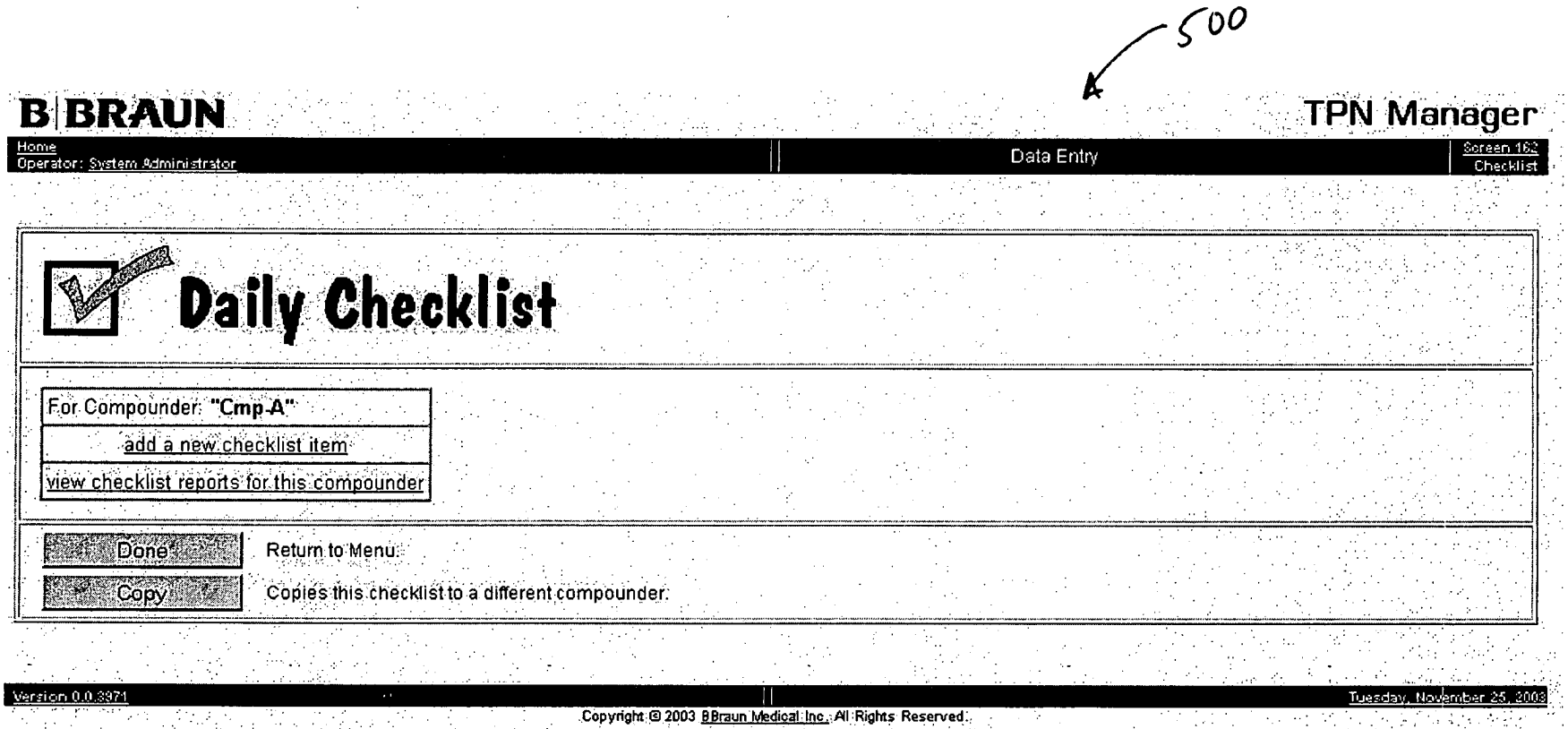
500
B|BRAUN
TPN Manager
Home
Operator: System Administrator
Data Entry
Screen 162
Checklist
Daily Checklist
For Compounder: "Cmp-A"
add a new checklist item
view checklist reports for this compounder
Done
Return to Menu.
Copy
Copies this checklist to a different compounder.
Version 0.0.3971
Tuesday, November 25, 2003
Copyright © 2003 BBraun Medical Inc. All Rights Reserved.

FIG 11 J(1)

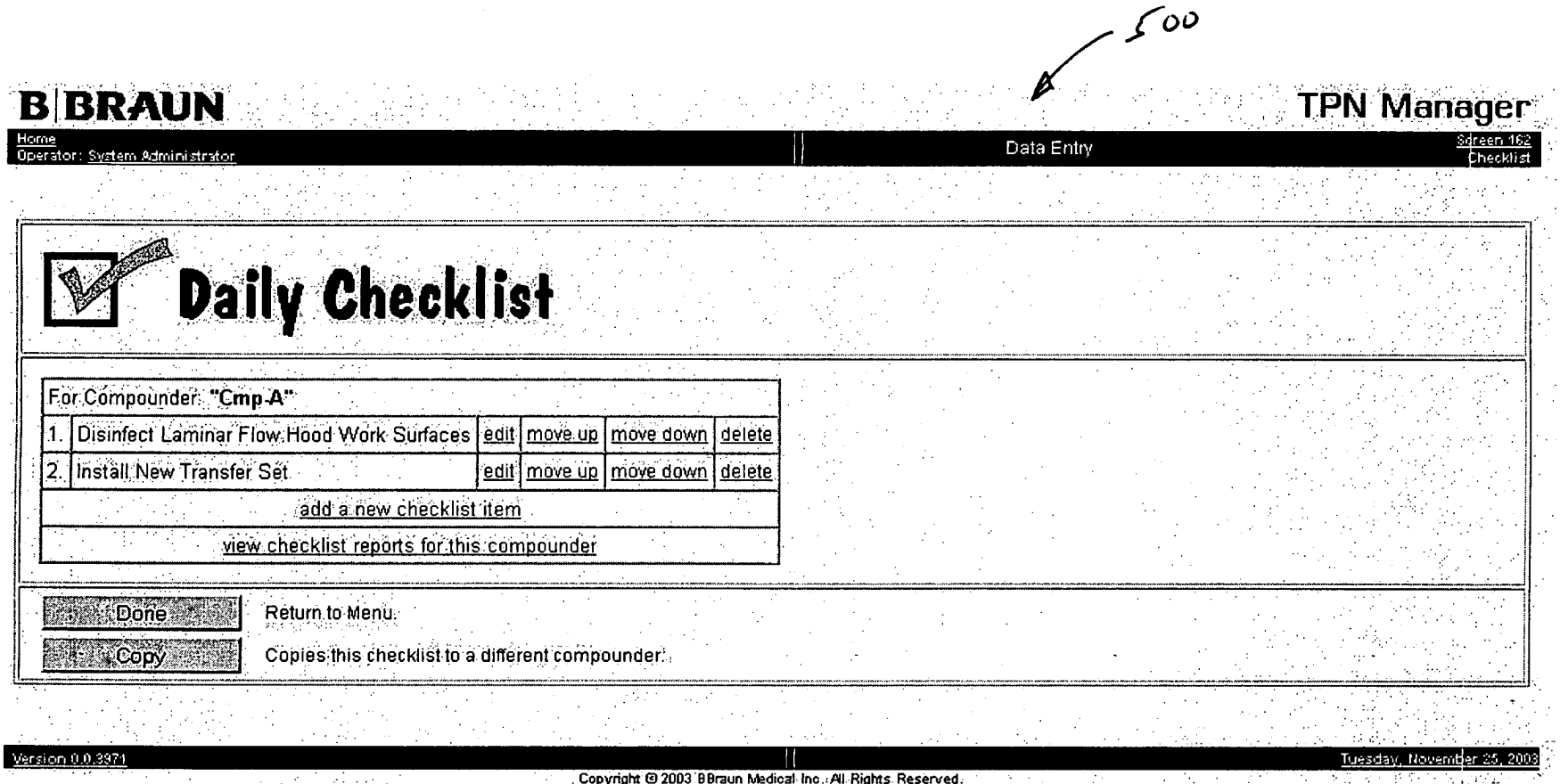
500
B BRAUN
TPN Manager
Home
Operator: System Administrator
Data Entry
Screen 162
Checklist
Daily Checklist
For Compounder: "Cmp-A"
1. Disinfect Laminar Flow Hood Work Surfaces edit move up move down delete
2. Install New Transfer Set edit move up move down delete
add a new checklist item
view checklist reports for this compounder
Done
Return to Menu.
Copy
Copies this checklist to a different compounder.
Version 0.0.3371
Tuesday, November 25, 2003
Copyright © 2003 BBraun Medical Inc. All Rights Reserved.

FIG 11 J(2)

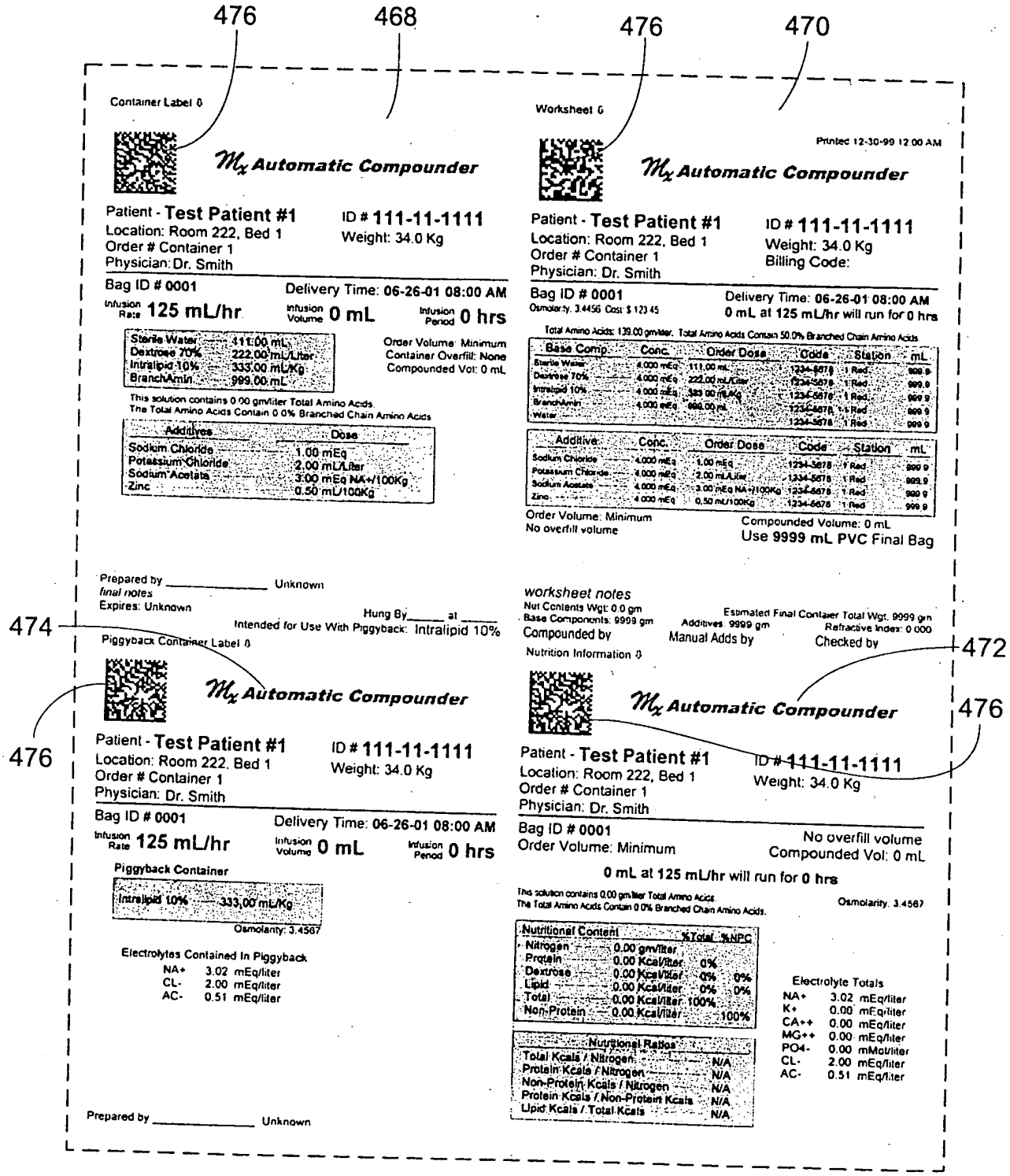
476
468
476
470
Container Label 0
Mx Automatic Compounder
Patient - Test Patient #1
ID # 111-11-1111
Location: Room 222, Bed 1
Weight: 34.0 Kg
Order # Container 1
Physician: Dr. Smith
Bag ID # 0001
Delivery Time: 06-26-01 08:00 AM
Infusion Rate 125 mL/hr
Infusion Volume 0 mL
Infusion Period 0 hrs
Sterile Water 111.00 mL
Dextrose 70% 222.00 mL/Liter
Intralipid 10% 333.00 mL/Kg
BranchAmin 999.00 mL
Order Volume: Minimum
Container Overfill: None
Compounded Vol: 0 mL
This solution contains 0.00 gm/liter Total Amino Acids.
The Total Amino Acids Contain 0.0% Branched Chain Amino Acids
Additives
Dose
Sodium Chloride 1.00 mEq
Potassium Chloride 2.00 mL/Liter
Sodium Acetate 3.00 mEq NA+/100Kg
Zinc 0.50 mL/100Kg
Prepared by _____ Unknown
final notes
Expires: Unknown
Hung By_____ at _____
Intended for Use With Piggyback: Intralipid 10%
Worksheet 0
Printed 12-30-99 12:00 AM
Mx Automatic Compounder
Patient - Test Patient #1
ID # 111-11-1111
Location: Room 222, Bed 1
Weight: 34.0 Kg
Order # Container 1
Billing Code:
Physician: Dr. Smith
Bag ID # 0001
Delivery Time: 06-26-01 08:00 AM
Osmolarity: 3.4456 Cost: $ 123.45
0 mL at 125 mL/hr will run for 0 hrs
Total Amino Acids: 139.00 gm/liter. Total Amino Acids Contain 50.0% Branched Chain Amino Acids
Base Comp
Conc.
Order Dose
Code
Station
mL
Sterile Water 4.000 mEq 111.00 mL 1234-5678 1 Red 999.9
Dextrose 70% 4.000 mEq 222.00 mL/Liter 1234-5678 1 Red 999.9
Intralipid 10% 4.000 mEq 333.00 mL/Kg 1234-5678 1 Red 999.9
BranchAmin 4.000 mEq 999.00 mL 1234-5678 1 Red 999.9
Water 1234-5678 1 Red 999.9
Additive
Conc.
Order Dose
Code
Station
mL
Sodium Chloride 4.000 mEq 1.00 mEq 1234-5678 1 Red 999.9
Potassium Chloride 4.000 mEq 2.00 mL/Liter 1234-5678 1 Red 999.9
Sodium Acetate 4.000 mEq 3.00 mEq NA+/100Kg 1234-5678 1 Red 999.9
Zinc 4.000 mEq 0.50 mL/100Kg 1234-5678 1 Red 999.9
Order Volume: Minimum
No overfill volume
Compounded Volume: 0 mL
Use 9999 mL PVC Final Bag
worksheet notes
Net Contents Wgt: 0.0 gm
Estimated Final Container Total Wgt: 9999 gm
Base Components: 9999 gm
Additives: 9999 gm
Refractive Index: 0.000
Compounded by
Manual Adds by
Checked by
Nutrition Information 0
474
Piggyback Container Label 0
Mx Automatic Compounder
476
Patient - Test Patient #1
ID # 111-11-1111
Location: Room 222, Bed 1
Weight: 34.0 Kg
Order # Container 1
Physician: Dr. Smith
Bag ID # 0001
Delivery Time: 06-26-01 08:00 AM
Infusion Rate 125 mL/hr
Infusion Volume 0 mL
Infusion Period 0 hrs
Piggyback Container
Intralipid 10% 333.00 mL/Kg
Osmolarity: 3.4567
Electrolytes Contained In Piggyback
NA+ 3.02 mEq/liter
CL- 2.00 mEq/liter
AC- 0.51 mEq/liter
Prepared by _____ Unknown
472
Mx Automatic Compounder
476
Patient - Test Patient #1
ID # 111-11-1111
Location: Room 222, Bed 1
Weight: 34.0 Kg
Order # Container 1
Physician: Dr. Smith
Bag ID # 0001
No overfill volume
Order Volume: Minimum
Compounded Vol: 0 mL
0 mL at 125 mL/hr will run for 0 hrs
This solution contains 0.00 gm/liter Total Amino Acids.
The Total Amino Acids Contain 0.0% Branched Chain Amino Acids.
Osmolarity: 3.4567
Nutritional Content
%Total
%NPC
Nitrogen 0.00 gm/liter
Protein 0.00 Kcal/liter 0%
Dextrose 0.00 Kcal/liter 0% 0%
Lipid 0.00 Kcal/liter 0% 0%
Total 0.00 Kcal/liter 100%
Non-Protein 0.00 Kcal/liter 100%
Nutritional Ratios
Total Kcals / Nitrogen N/A
Protein Kcals / Nitrogen N/A
Non-Protein Kcals / Nitrogen N/A
Protein Kcals / Non-Protein Kcals N/A
Lipid Kcals / Total Kcals N/A
Electrolyte Totals
NA+ 3.02 mEq/liter
K+ 0.00 mEq/liter
CA++ 0.00 mEq/liter
MG++ 0.00 mEq/liter
PO4- 0.00 mMol/liter
CL- 2.00 mEq/liter
AC- 0.51 mEq/liter

Fig. 12

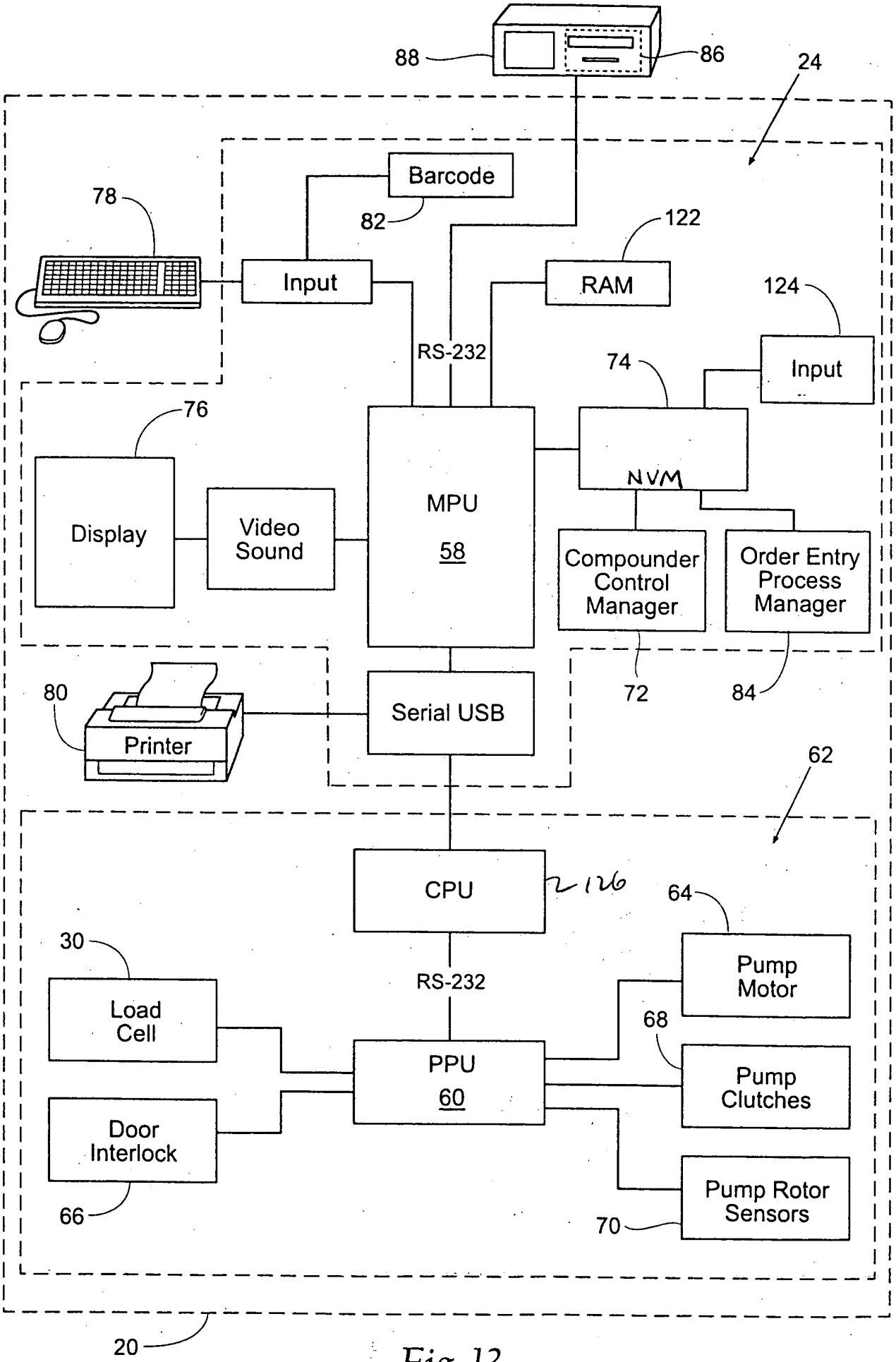
88
86
24
Barcode
82
78
122
Input
RAM
124
RS-232
74
Input
76
MPU
58
NVM
Display
Video
Sound
Compounder
Control
Manager
Order Entry
Process
Manager
72
84
80
Printer
Serial USB
62
CPU
126
64
30
Pump
Motor
RS-232
Load
Cell
68
PPU
60
Pump
Clutches
Door
Interlock
66
Pump Rotor
Sensors
70
20

Fig. 13

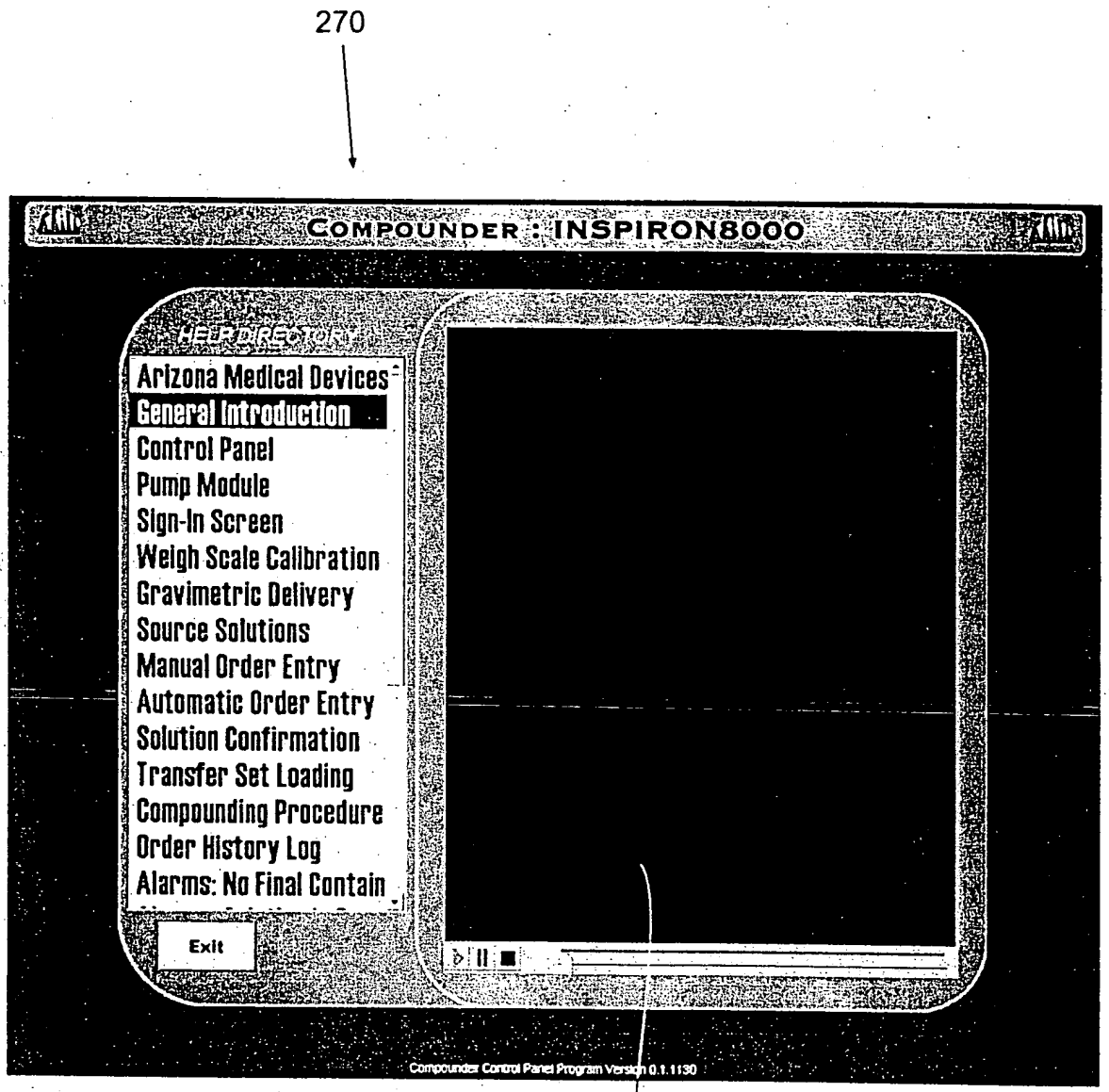
270
COMPOUNDER : INSPIRON8000
HELP DIRECTORY
Arizona Medical Devices
General Introduction
Control Panel
Pump Module
Sign-In Screen
Weigh Scale Calibration
Gravimetric Delivery
Source Solutions
Manual Order Entry
Automatic Order Entry
Solution Confirmation
Transfer Set Loading
Compounding Procedure
Order History Log
Alarms: No Final Contain
Exit
Compounder Control Panel Program Version 0.1.1130
272

Fig. 14A

272

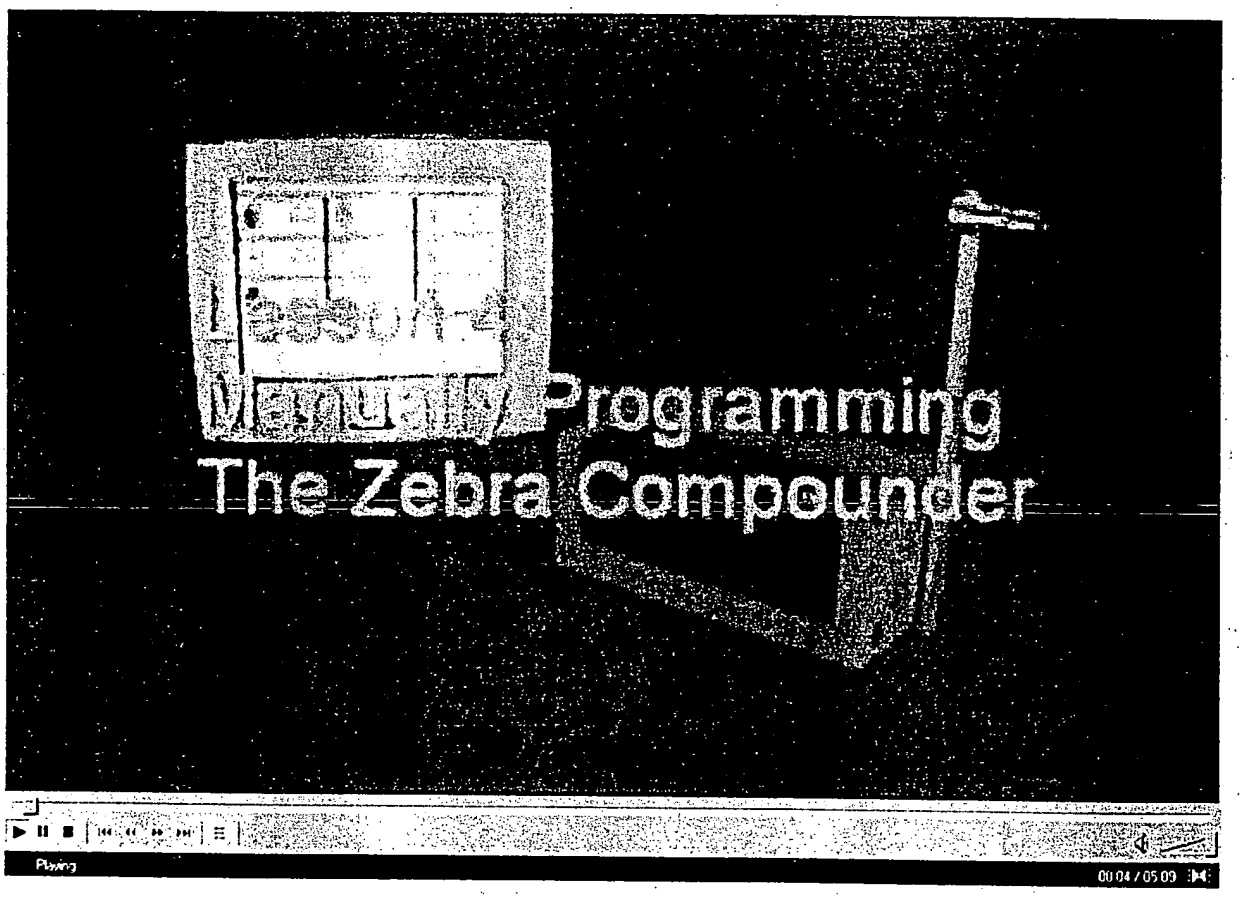

Fig. 14B (1)

272

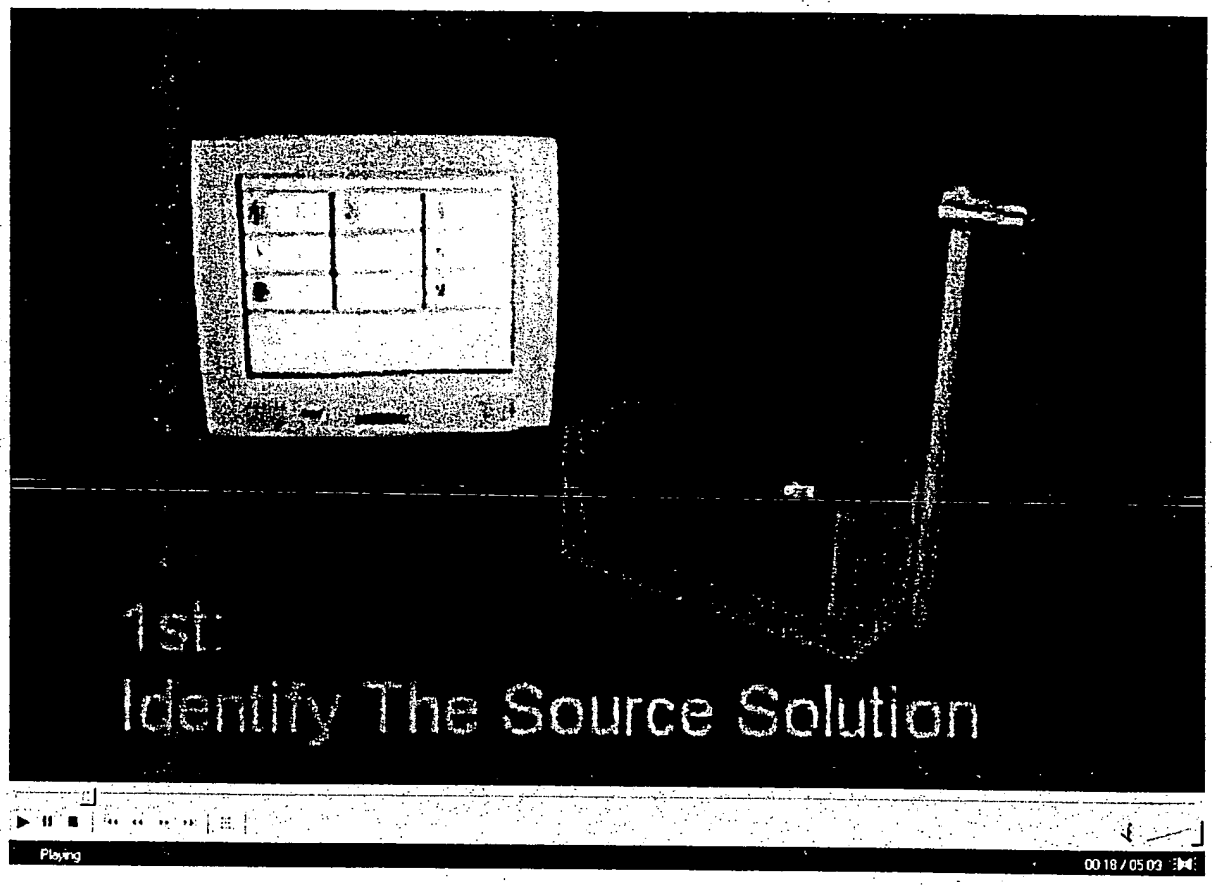

Fig. 14B (2)

272

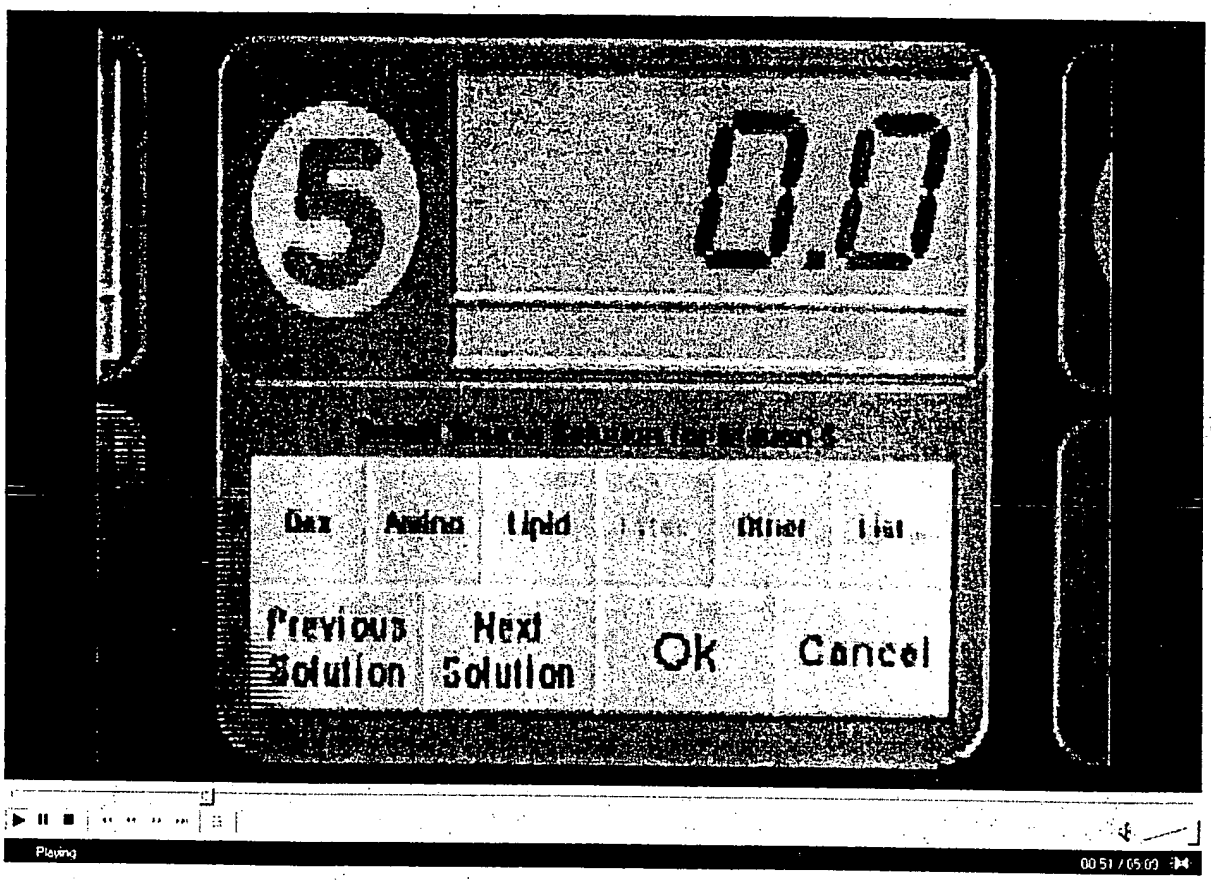
Gas
Liquid
Other
Previous Solution
Next Solution
Ok
Cancel
Playing

Fig. 14B (3)

272

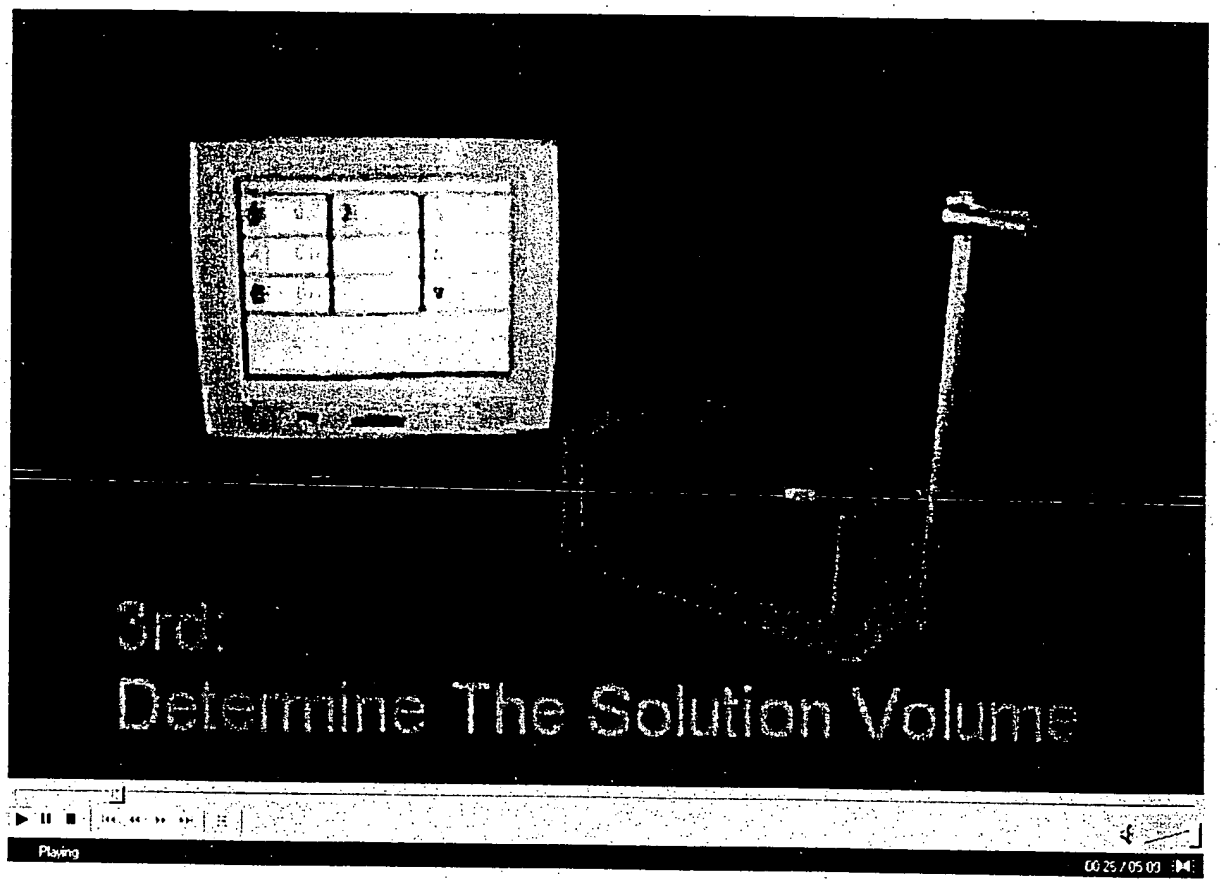

Fig. 14B (4)

272

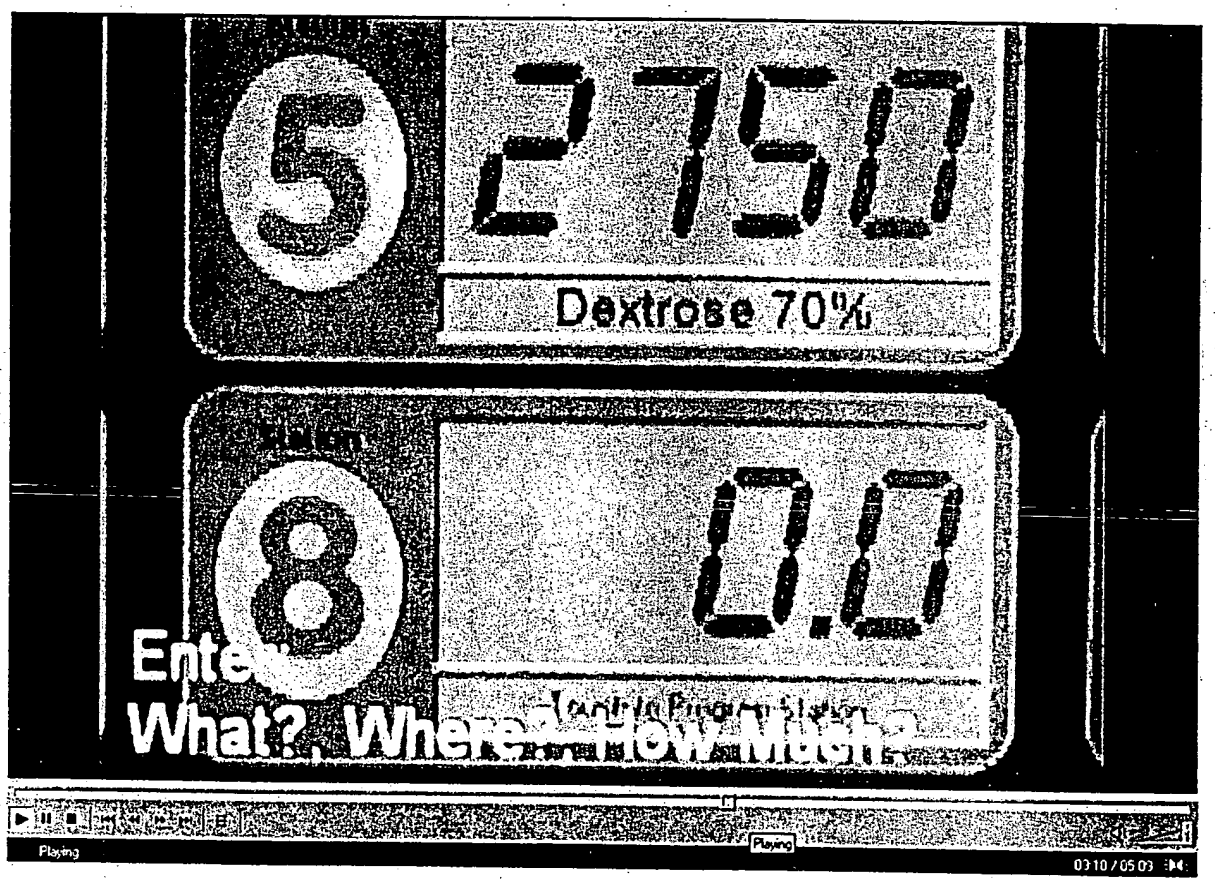

Fig. 14B (5)

272

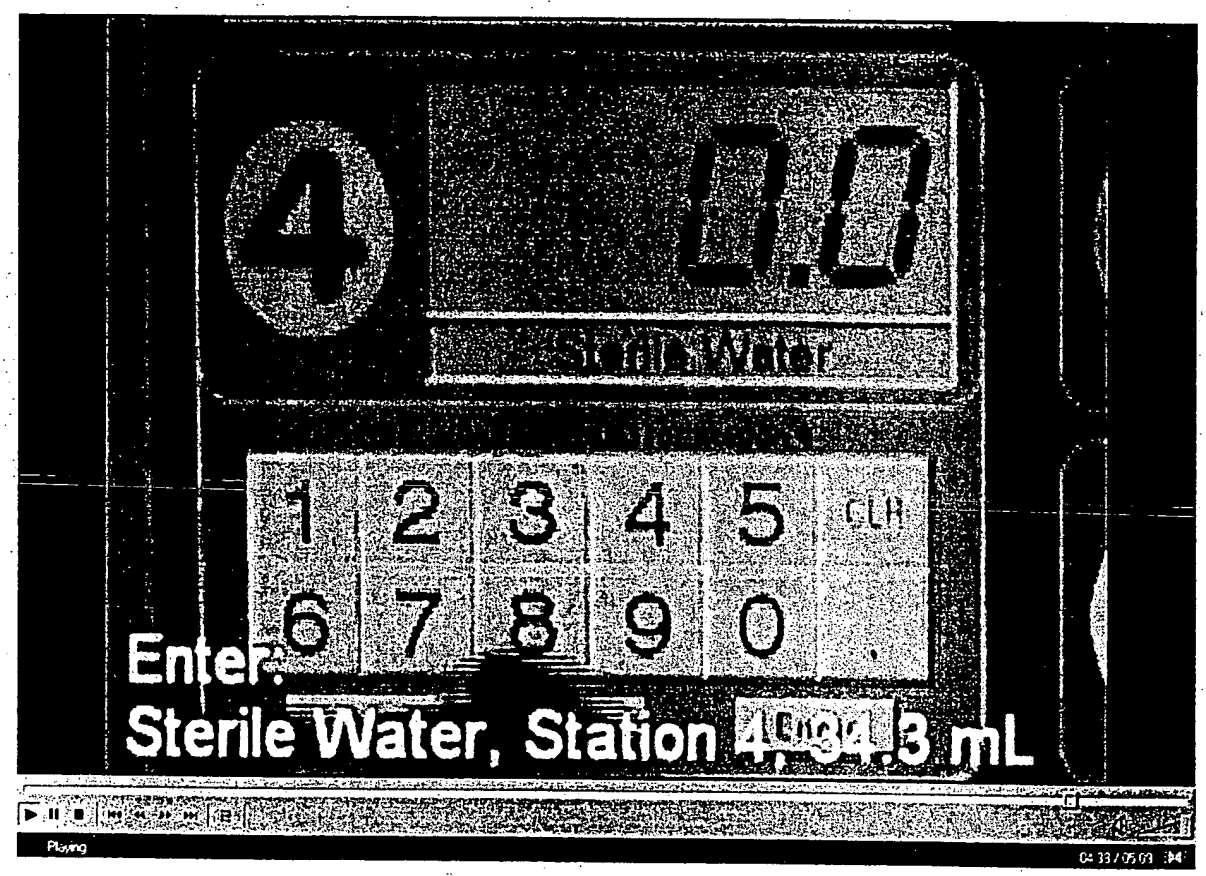
Sterile Water
1 2 3 4 5 CLR
6 7 8 9 0 .
Enter:
Sterile Water, Station 4, 34.3 mL
Playing

Fig. 14B (6)

272

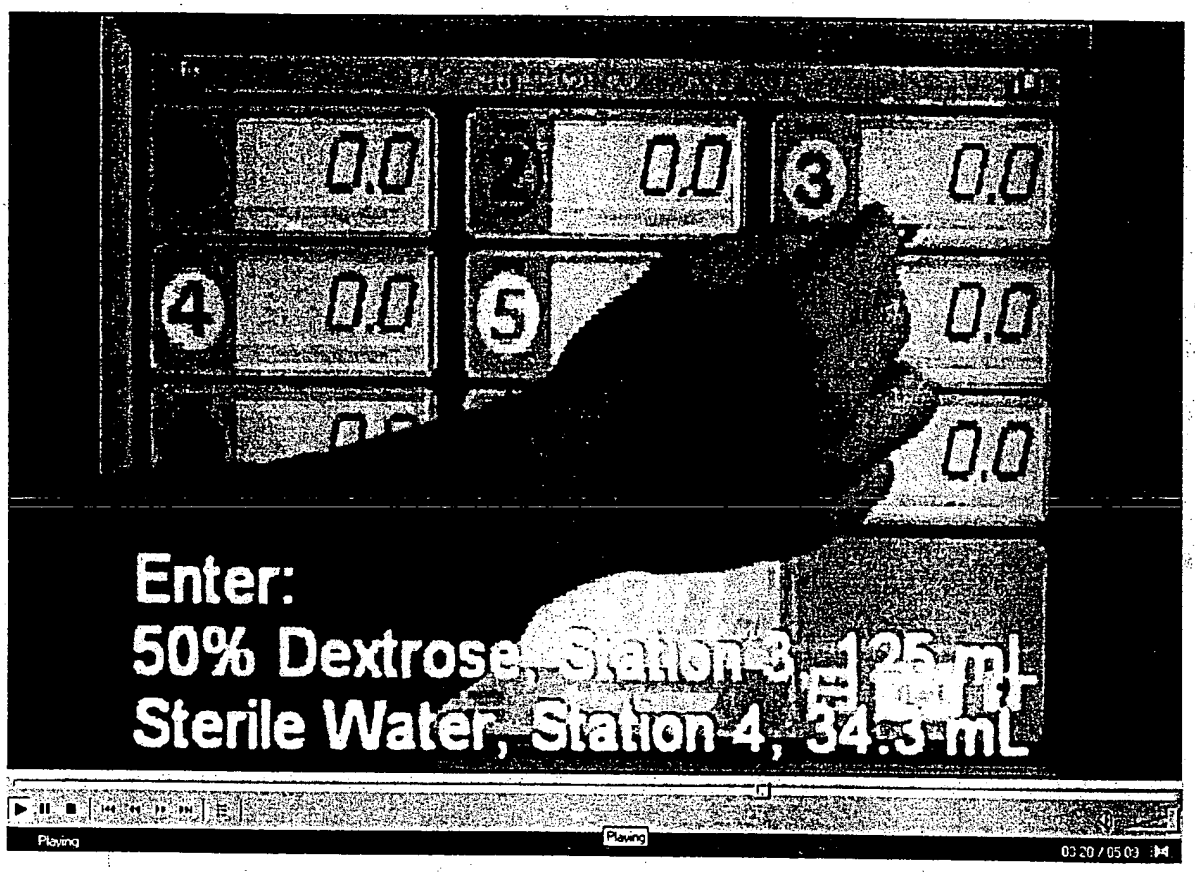
0.0
0.0
3
0.0
4
0.0
5
0.0
0.0
Enter:
50% Dextrose, Station 3,
Sterile Water, Station 4, 34.3 mL
Playing
Playing
03:20 / 05:03

Fig. 14B (7)

272

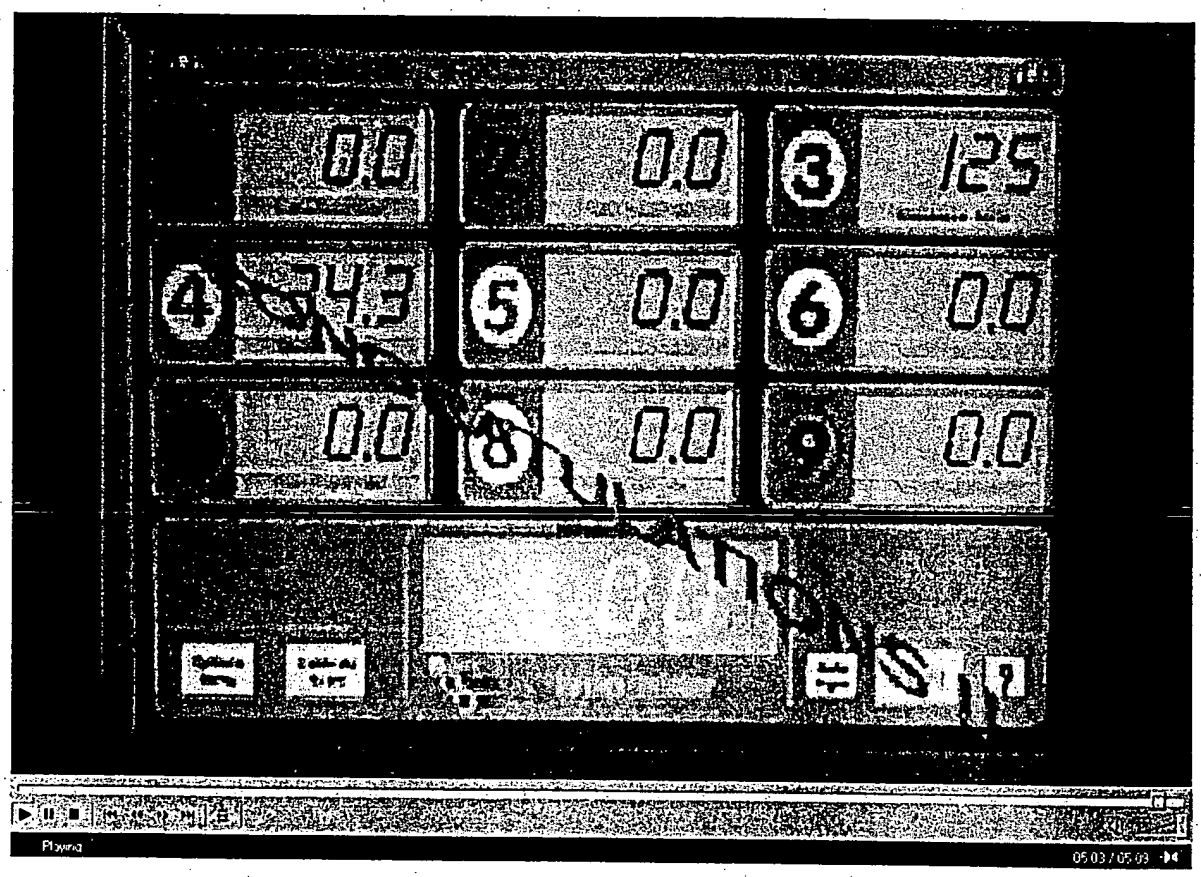

Fig. 14B (8)

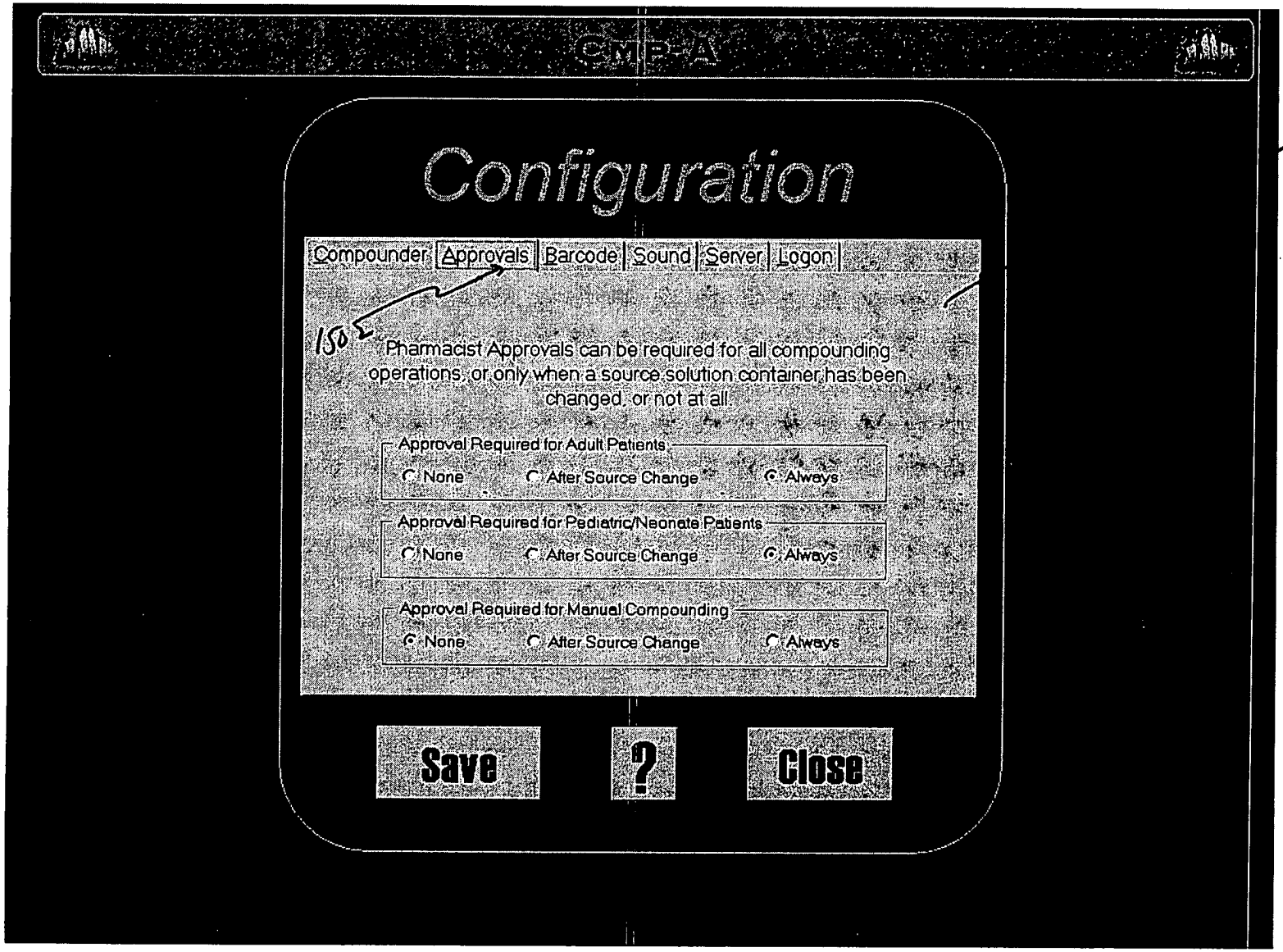
CMPA
Configuration
Compounder
Approvals
Barcode
Sound
Server
Logon
150
Pharmacist Approvals can be required for all compounding operations, or only when a source solution container has been changed, or not at all.
Approval Required for Adult Patients
None
After Source Change
Always
Approval Required for Pediatric/Neonate Patients
None
After Source Change
Always
Approval Required for Manual Compounding
None
After Source Change
Always
Save
?
Close
1500

FIG 15A

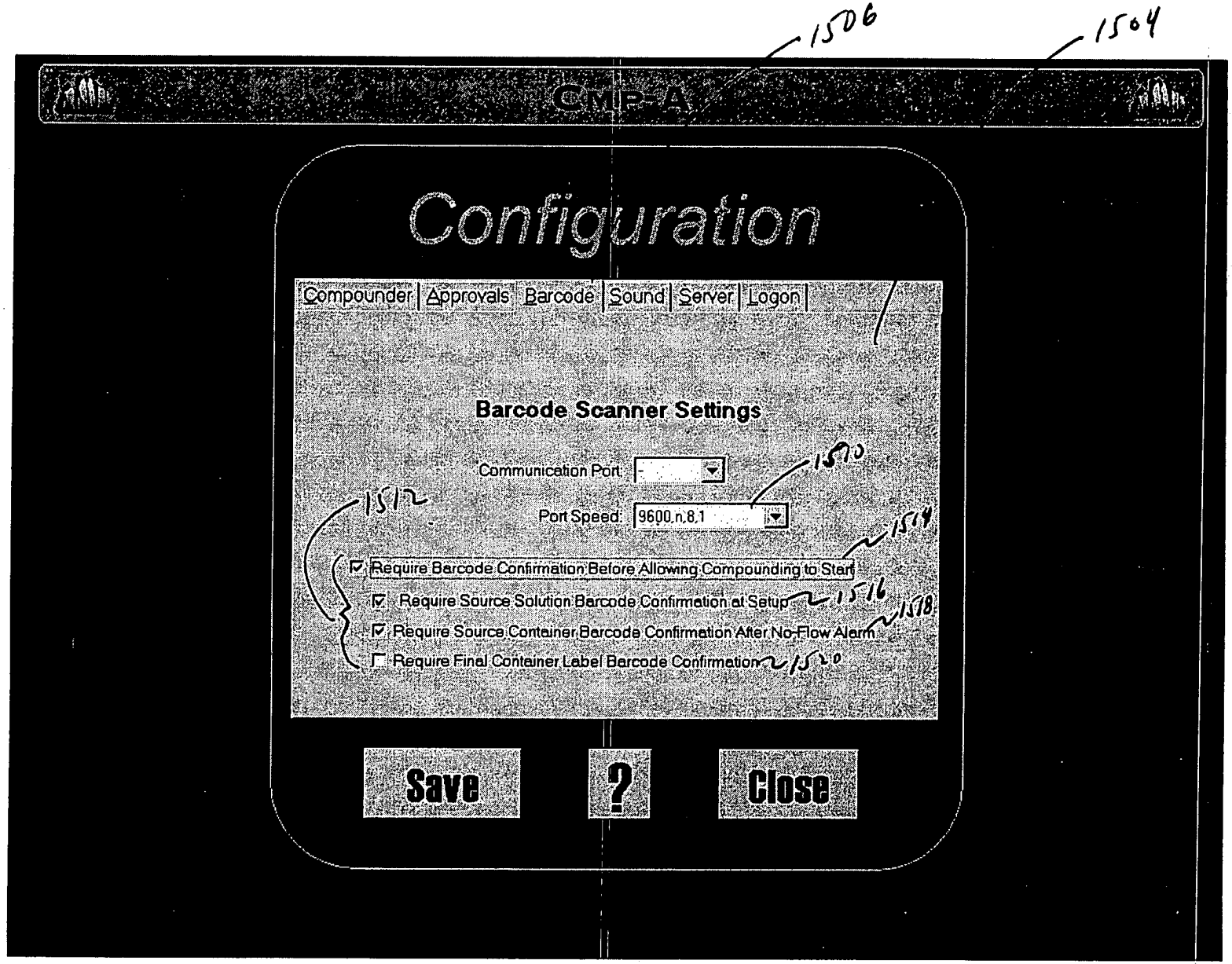
1506
1504
CMP-A
Configuration
Compounder
Approvals
Barcode
Sound
Server
Logon
Barcode Scanner Settings
Communication Port:
Port Speed:
9600,n,8,1
1510
1512
1514
Require Barcode Confirmation Before Allowing Compounding to Start
Require Source Solution Barcode Confirmation at Setup
1516
1518
Require Source Container Barcode Confirmation After No-Flow Alarm
Require Final Container Label Barcode Confirmation
1520
Save
?
Close

FIG. 15B

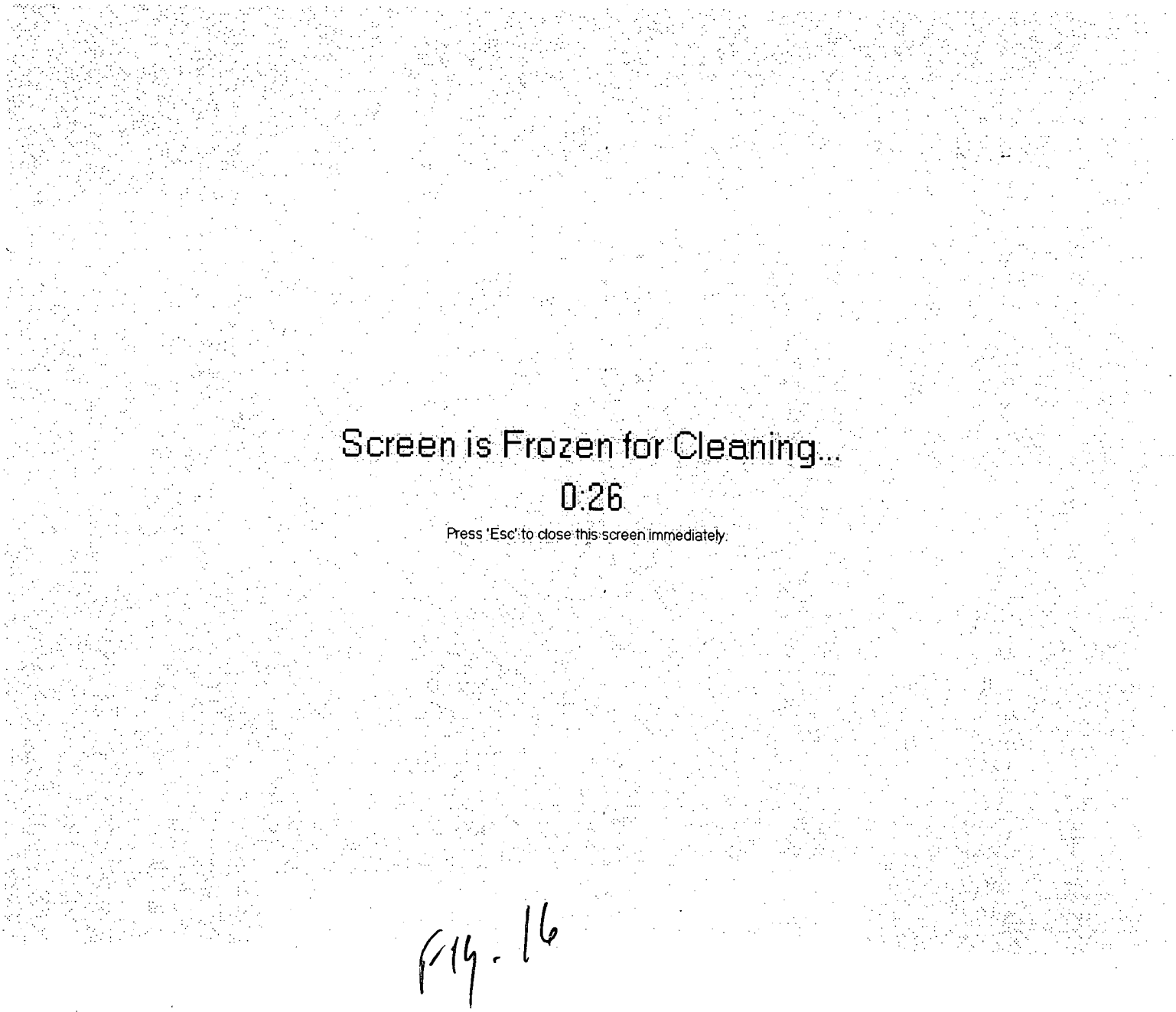
Screen is Frozen for Cleaning...
0:26
Press 'Esc' to close this screen immediately.

Fig. 16

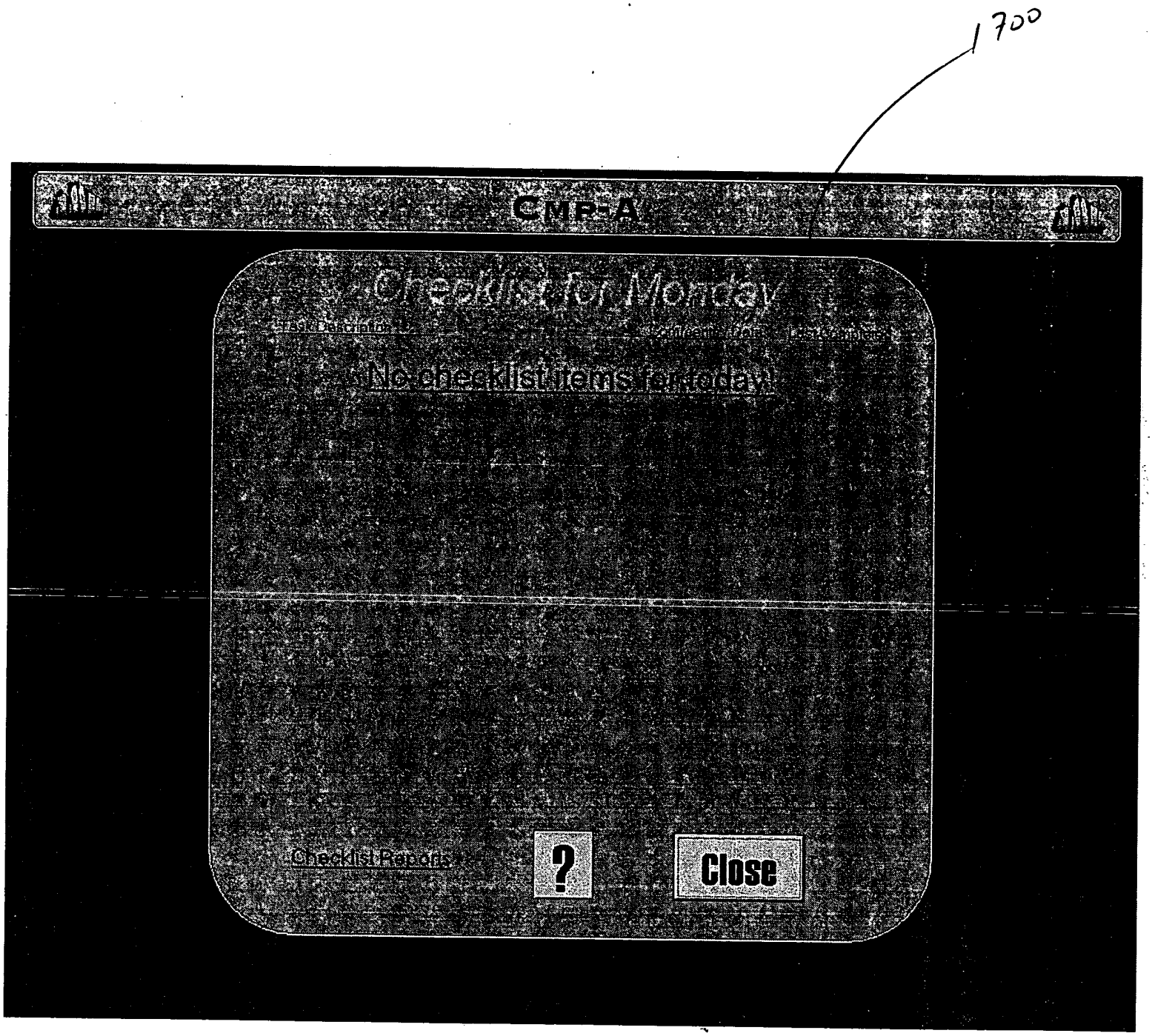
1700
CMP-A
Checklist for Monday
No checklist items for today
Checklist Reports
?
Close

FIG-17

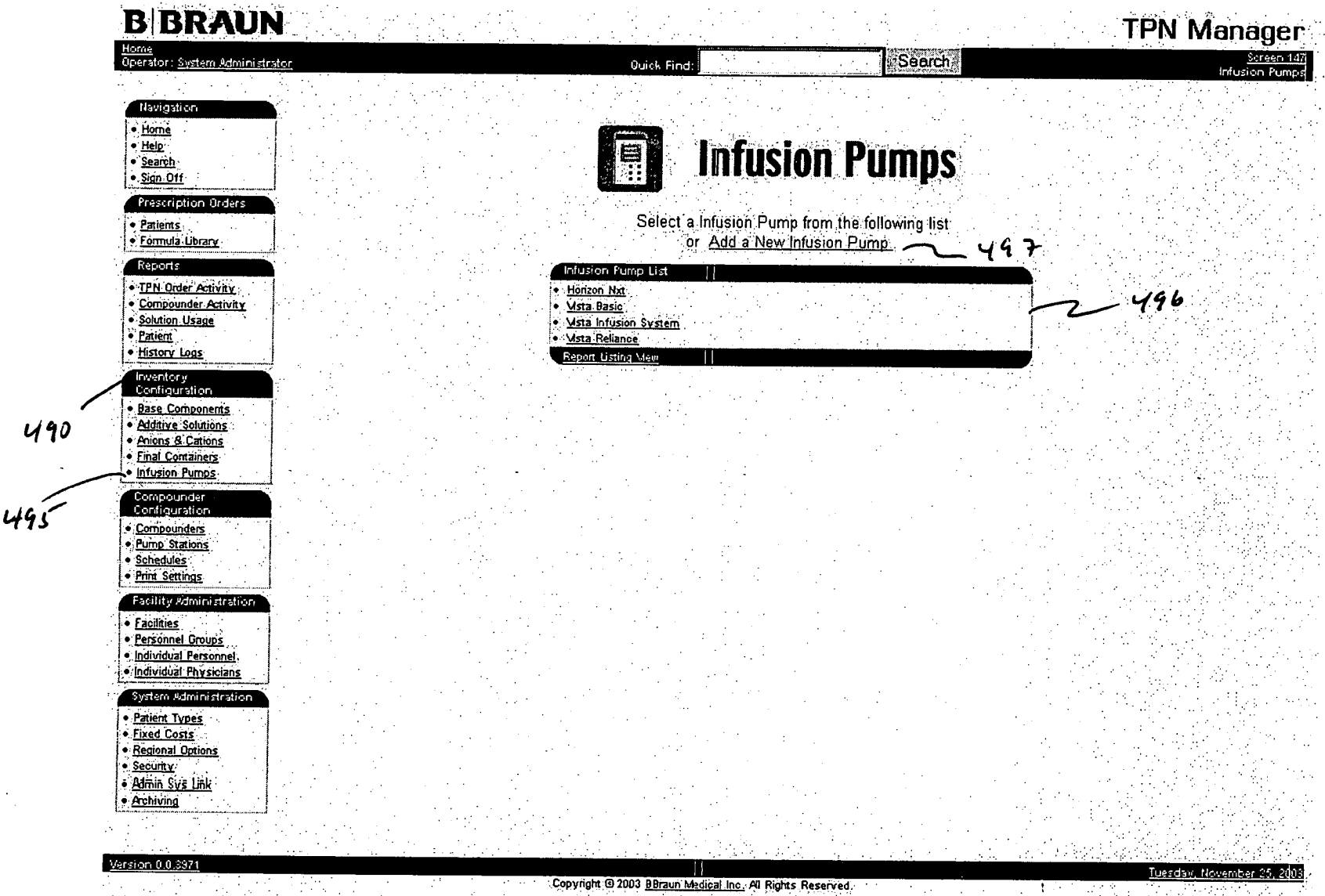
B BRAUN
TPN Manager
Home
Operator: System Administrator
Quick Find:
Search
Screen 147
Infusion Pumps
Navigation
Home
Help
Search
Sign Off
Prescription Orders
Patients
Formula Library
Reports
TPN Order Activity
Compounder Activity
Solution Usage
Patient
History Logs
Inventory Configuration
Base Components
Additive Solutions
Anions & Cations
Final Containers
Infusion Pumps
Compounder Configuration
Compounders
Pump Stations
Schedules
Print Settings
Facility Administration
Facilities
Personnel Groups
Individual Personnel
Individual Physicians
System Administration
Patient Types
Fixed Costs
Regional Options
Security
Admin Sys Link
Archiving
Infusion Pumps
Select a Infusion Pump from the following list
or Add a New Infusion Pump
497
Infusion Pump List
Horizon Nxt
Vista Basic
Vista Infusion System
Vista Reliance
496
Report Listing Menu
490
495
Version 0.0.3971
Tuesday, November 25, 2003
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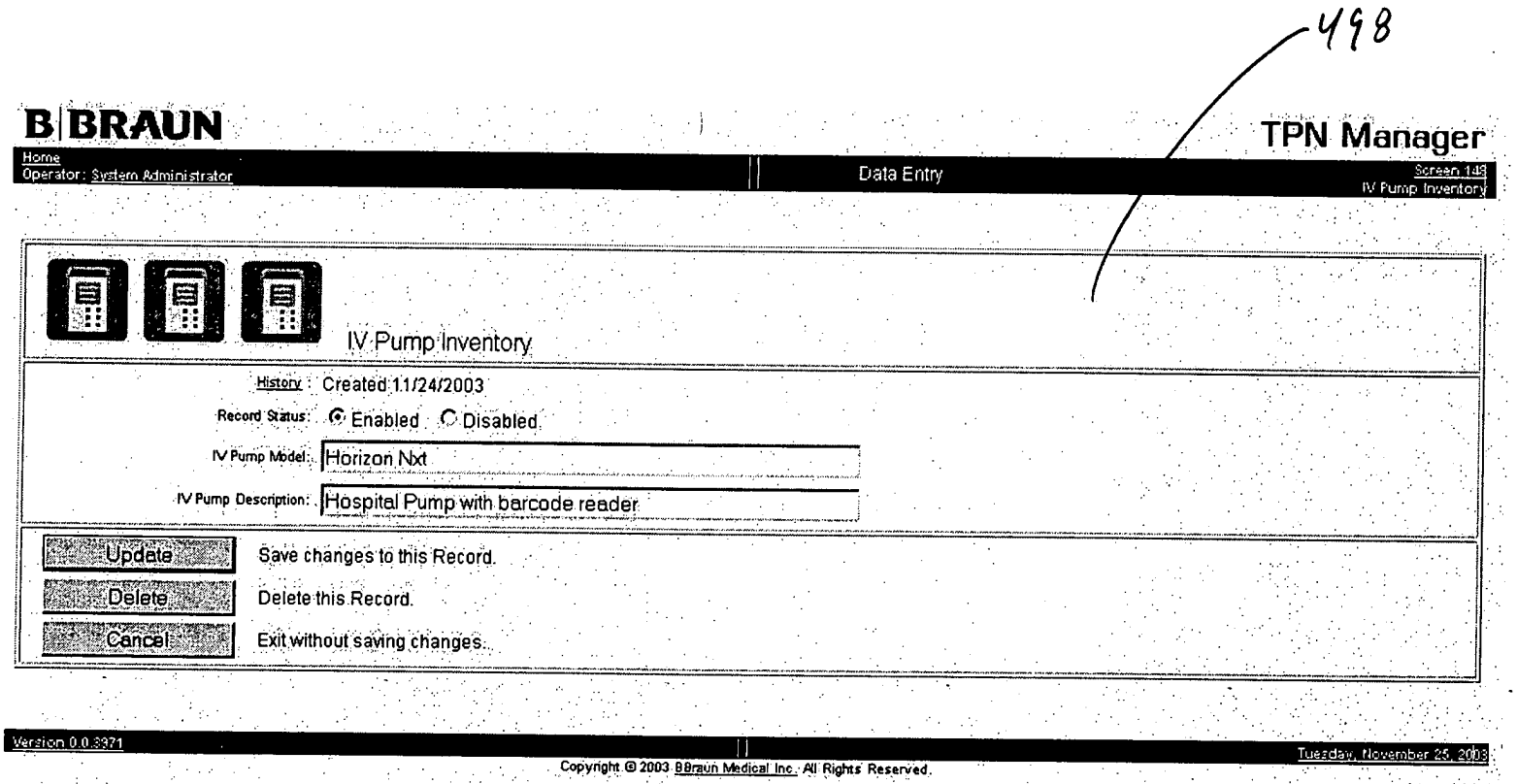
FIG 18A


498
B|BRAUN
TPN Manager
Home
Operator: System Administrator
Data Entry
Screen 148
IV Pump Inventory
IV Pump Inventory
History
Created 11/24/2003
Record Status:
Enabled
Disabled
IV Pump Model:
Horizon Nxt
IV Pump Description:
Hospital Pump with barcode reader
Update
Save changes to this Record.
Delete
Delete this Record.
Cancel
Exit without saving changes.
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Tuesday, November 25, 2003
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FIG 18 B

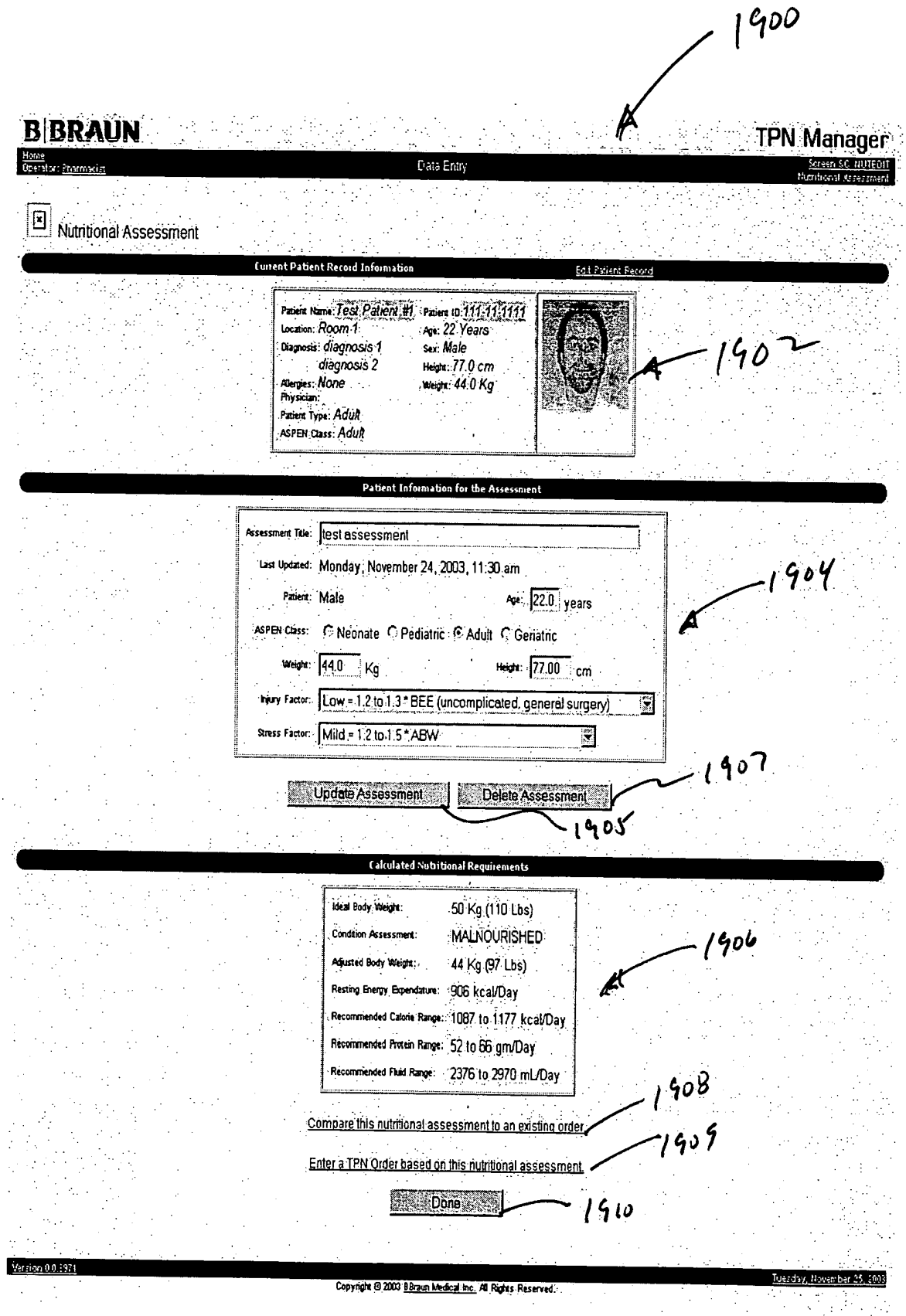
1900
B|BRAUN
TPN Manager
Home
Operator: Pharmacist
Data Entry
Screen SC_NUTEDIT
Nutritional Assessment
Nutritional Assessment
Current Patient Record Information
Edit Patient Record
Patient Name: Test Patient #1
Patient ID: 111-11-1111
Location: Room 1
Age: 22 Years
Diagnosis: diagnosis 1
diagnosis 2
Sex: Male
Height: 77.0 cm
Allergies: None
Weight: 44.0 Kg
Physician:
Patient Type: Adult
ASPEN Class: Adult
1902
Patient Information for the Assessment
Assessment Title: test assessment
Last Updated: Monday, November 24, 2003, 11:30 am
Patient: Male
Age: 22.0 years
ASPEN Class: Neonate Pediatric Adult Geriatric
Weight: 44.0 Kg
Height: 77.00 cm
Injury Factor: Low = 1.2 to 1.3 * BEE (uncomplicated, general surgery)
Stress Factor: Mild = 1.2 to 1.5 * ABW
1904
Update Assessment
Delete Assessment
1907
1905
Calculated Nutritional Requirements
Ideal Body Weight: 50 Kg (110 Lbs)
Condition Assessment: MALNOURISHED
Adjusted Body Weight: 44 Kg (97 Lbs)
Resting Energy Expenditure: 906 kcal/Day
Recommended Calorie Range: 1087 to 1177 kcal/Day
Recommended Protein Range: 52 to 66 gm/Day
Recommended Fluid Range: 2376 to 2970 mL/Day
1906
1908
Compare this nutritional assessment to an existing order
1909
Enter a TPN Order based on this nutritional assessment
Done
1910
Version 0.0.1971
Tuesday, November 25, 2003
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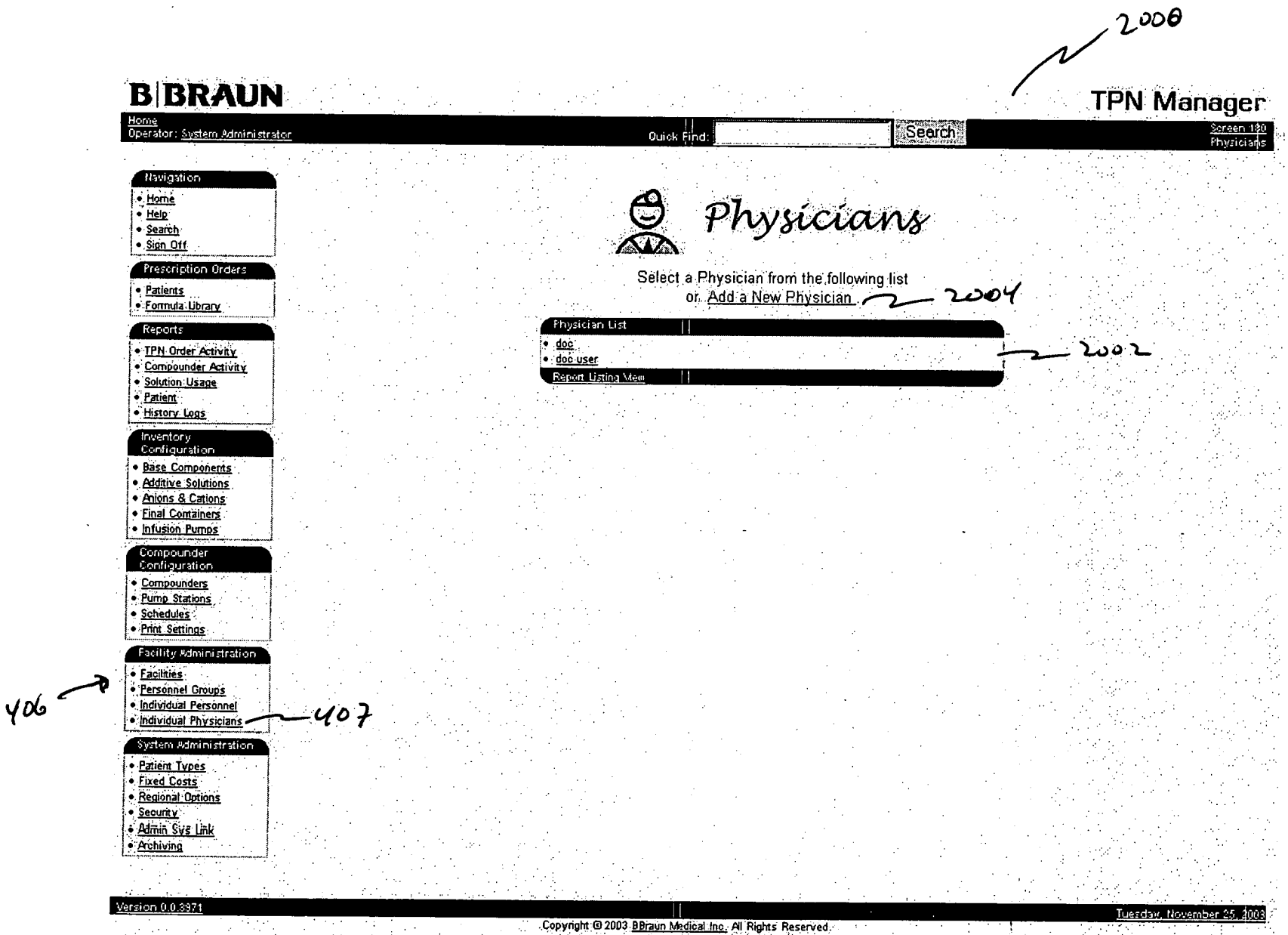
FIG 19


2000
B|BRAUN
TPN Manager
Home
Operator: System Administrator
Quick Find:
Search
Screen 130
Physicians
Navigation
Home
Help
Search
Sign Off
Prescription Orders
Patients
Formula Library
Reports
TPN Order Activity
Compounder Activity
Solution Usage
Patient
History Logs
Inventory Configuration
Base Components
Additive Solutions
Anions & Cations
Final Containers
Infusion Pumps
Compounder Configuration
Compounders
Pump Stations
Schedules
Print Settings
Facility Administration
Facilities
Personnel Groups
Individual Personnel
Individual Physicians
System Administration
Patient Types
Fixed Costs
Regional Options
Security
Admin Sys Link
Archiving
406
407
Physicians
Select a Physician from the following list
or Add a New Physician
2004
Physician List
doc
doc user
2002
Report Listing Menu
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Tuesday, November 25, 2003
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FIG 2A

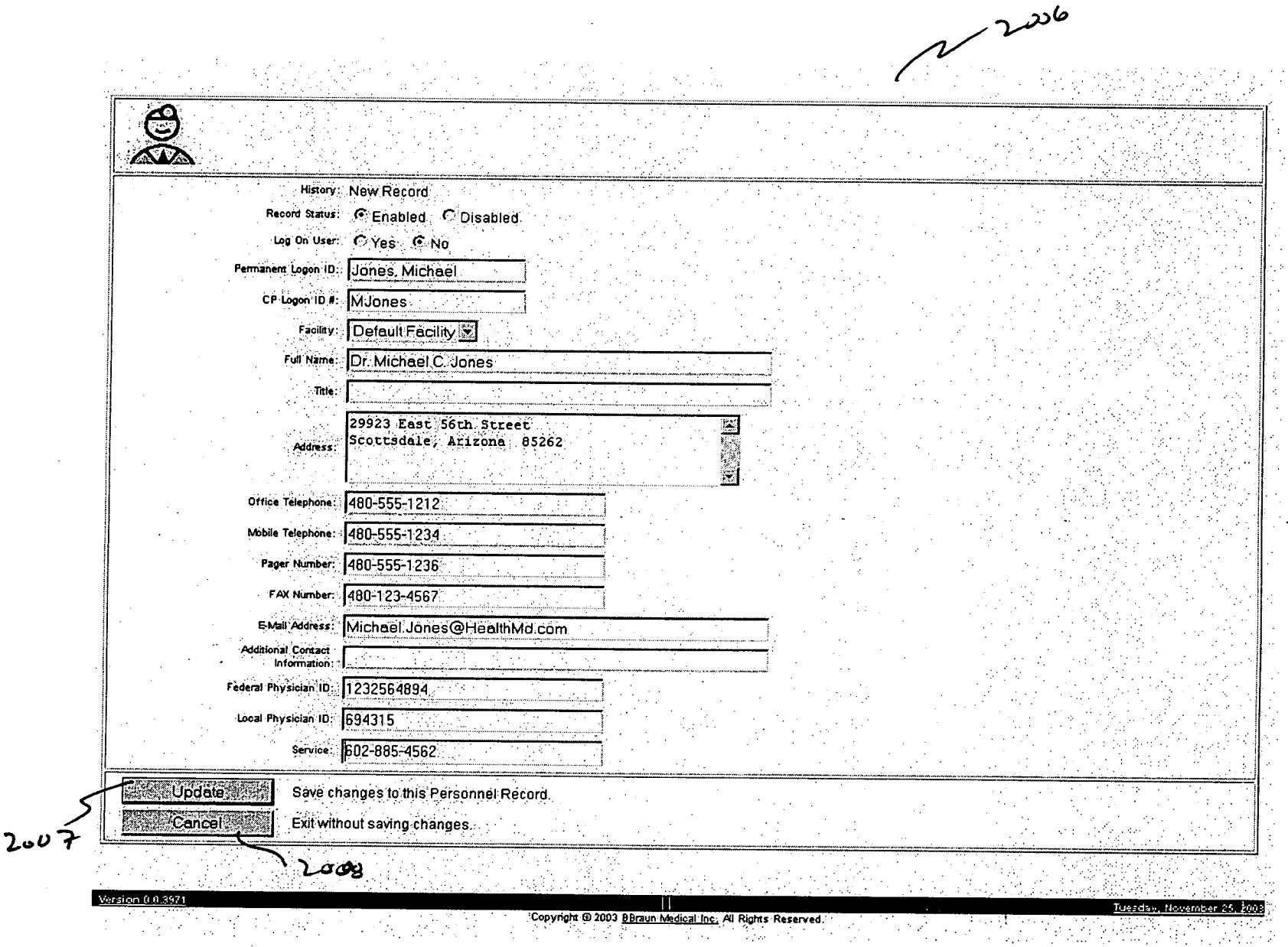
2006
History: New Record
Record Status: Enabled Disabled
Log On User: Yes No
Permanent Logon ID: Jones, Michael
CP Logon ID #: MJones
Facility: Default Facility
Full Name: Dr. Michael C. Jones
Title:
Address: 29923 East 56th Street
Scottsdale, Arizona 85262
Office Telephone: 480-555-1212
Mobile Telephone: 480-555-1234
Pager Number: 480-555-1236
FAX Number: 480-123-4567
E-Mail Address: Michael.Jones@HealthMd.com
Additional Contact Information:
Federal Physician ID: 1232564894
Local Physician ID: 694315
Service: 602-885-4562
Update
Save changes to this Personnel Record.
Cancel
Exit without saving changes.
2007
2008
Version 0.0.3971
Tuesday, November 25, 2003
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FIG 20B

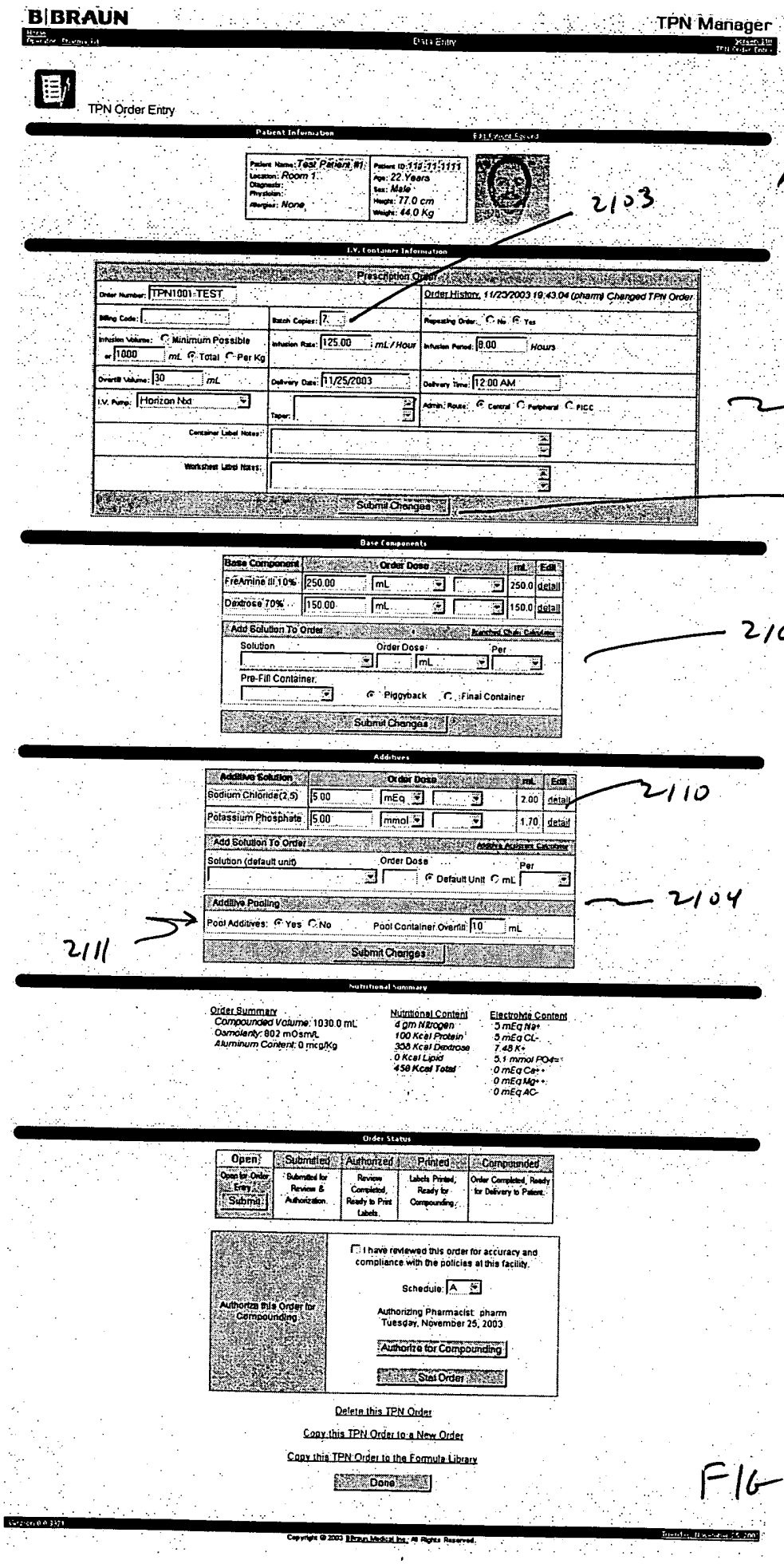
B|BRAUN
TPN Manager
Data Entry
TPN Order Entry
2100
Patient Information
Patient Name: Test Patient #1
Location: Room 1
Diagnosis:
Physician:
Allergies: None
Patient ID: 111-11-1111
Age: 22 Years
Sex: Male
Height: 77.0 cm
Weight: 44.0 Kg
2103
I.V. Container Information
Prescription Order
Order Number: TPN1001-TEST
Order History: 11/23/2003 19:43:04 (pharm) Changed TPN Order
Batch Copies: 2
Infusion Rate: 125.00 mL/Hour
Infusion Period: 8.00 Hours
Overfill Volume: 30 mL
Delivery Date: 11/25/2003
Delivery Time: 12:00 AM
I.V. Pump: Horizon Nxt
Admin. Route: Central Peripheral PICC
2102
Container Label Notes:
Worksheet Label Notes:
Submit Changes
2106
Base Components
Base Component
Order Dose
mL
Edit
FreAmine III 10%
250.00 mL
250.0 detail
Dextrose 70%
150.00 mL
150.0 detail
Add Solution To Order
Solution
Order Dose
Per
Pre-Fill Container:
Piggyback
Final Container
Submit Changes
2108
Additives
Additive Solution
Order Dose
mL
Edit
Sodium Chloride(2.5)
5.00 mEq
2.00 detail
Potassium Phosphate
5.00 mmol
1.70 detail
2110
Add Solution To Order
Solution (default unit)
Order Dose
Per
Default Unit mL
Additive Pooling
Pool Additives: Yes No
Pool Container Overfill: 10 mL
Submit Changes
2104
2111
Nutritional Summary
Order Summary
Compounded Volume: 1030.0 mL
Osmolarity: 802 mOsm/L
Aluminum Content: 0 mcg/Kg
Nutritional Content
4 gm Nitrogen
100 Kcal Protein
350 Kcal Dextrose
0 Kcal Lipid
450 Kcal Total
Electrolyte Content
5 mEq Na+
5 mEq CL-
7.48 K+
5.1 mmol PO4=
0 mEq Ca++
0 mEq Mg++
0 mEq AC-
Order Status
Open
Open for Order Entry
Submit
Submitted
Submitted for Review & Authorization
Authorized
Review Completed, Ready to Print Labels
Printed
Labels Printed, Ready for Compounding
Compounded
Order Completed, Ready for Delivery to Patient
Authorize this Order for Compounding
I have reviewed this order for accuracy and compliance with the policies at this facility.
Schedule: A
Authorizing Pharmacist: pharm
Tuesday, November 25, 2003
Authorize for Compounding
Stat Order
Delete this TPN Order
Copy this TPN Order to a New Order
Copy this TPN Order to the Formula Library
Done
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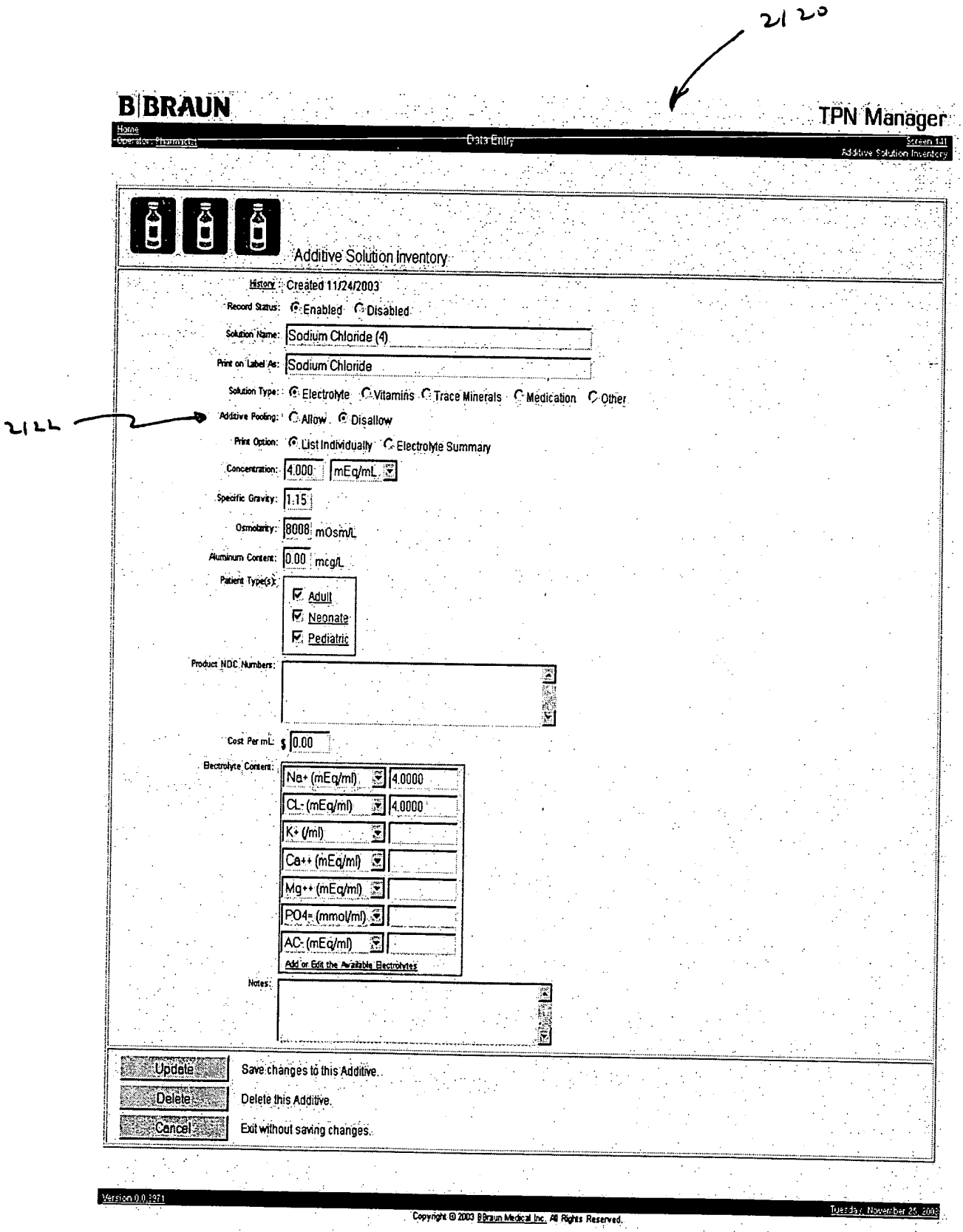
FIG 214


2120
B|BRAUN
TPN Manager
Home
Operator: Pharmacist
Data Entry
Screen 141
Additive Solution Inventory
Additive Solution Inventory
History: Created 11/24/2003
Record Status: Enabled Disabled
Solution Name: Sodium Chloride (4)
Print on Label As: Sodium Chloride
Solution Type: Electrolyte Vitamins Trace Minerals Medication Other
2122
Additive Pooling: Allow Disallow
Print Option: List Individually Electrolyte Summary
Concentration: 4.000 mEq/mL
Specific Gravity: 1.15
Osmolarity: 8008 mOsm/L
Aluminum Content: 0.00 mcg/L
Patient Type(s): Adult Neonate Pediatric
Product NDC Numbers:
Cost Per mL: $ 0.00
Electrolyte Content:
Na+ (mEq/ml) 4.0000
CL- (mEq/ml) 4.0000
K+ (/ml)
Ca++ (mEq/ml)
Mg++ (mEq/ml)
PO4= (mmol/ml)
AC- (mEq/ml)
Add or Edit the Available Electrolytes
Notes:
Update Save changes to this Additive.
Delete Delete this Additive.
Cancel Exit without saving changes.
Version 0.0.3971
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Tuesday, November 25, 2003

FIG 21B